

Request - Noble Terrell

Access DB# 131238

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sakiba Qazi Examiner #: 74141 Date: 8/29/04
Art Unit: 1616 Phone Number 30 20622 Serial Number: 10/616,950
Mail Box and Bldg/Room Location: 4C70 Room 4A-45 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or quality of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Fungicidal use

Inventors (please provide full names): ROSE, INGOLD et al

Earliest Priority Filing Date: 7/11/2002 60/374932

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for the compound and its use for controlling diseases in crop plants as barley + wheat.

Specific control of Pseudocercospora herpotrichoides is claimed.

Please see specific 5-bromo benzophenone in cl2 + 5

Thank you.

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>Noble</u>	NA Sequence (#)	STN	<u>299</u>
Searcher Phone #:	AA Sequence (#)	Dialog	
Searcher Location:	Structure (#) <u>D</u>	Questel/Orbit	
Date Searcher Picked Up:	Bibliographic	Dr.Link	
Date Completed: <u>9/1/04</u>	Litigation	Lexis/Nexis	
Searcher Prep & Review Time: <u>20</u>	Fulltext	Sequence Systems	
Technical Prep Time:	Patent Family	WWW/Internet	
File Time: <u>40</u>	Other	Other (specify)	

=> d his

(FILE 'HOME' ENTERED AT 11:08:00 ON 01 SEP 2004)

FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004

L1 1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004

FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004

L2 TRA L1 1- RN : 5 TERMS

FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004

L3 5 SEA L2

FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004

L4 1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:18:02 ON 01 SEP 2004

L5 STR

L6 STR L5

L7 4 L6 CSS

L8 88 L6 CSS FULL

SAVE TEMP QAZI950FUL/A L8

L9 67 L8 AND C19H21BRO5

FILE 'HCAPLUS' ENTERED AT 11:52:10 ON 01 SEP 2004

L10 29 L8

L11 24 L9

E PSEUDOCERCOSPORELLA/CT

E E3+ALL

E PSEUDOCERCOSPORELLA/CT

E E8+ALL

L12 223 PSEUDOCERCOSPORELLA HERPOTRICHOIDES+NT/CT

E PSEUDOCERCOSPORELLA/CT

E E3+ALL

L13 238 PSEUDOCERCOSPORELLA+NT/CT

L14 28 L10-11 AND (PY<=2002 OR PRY<=2002 OR AY<=2002 OR PD<20020711 OR

L15 0 L14 AND L13

L16 226 (P OR PSEUDOCERCOSPORELLA) (1A) HERPOTRICHOIDES

L17 1 L14 AND L16

E WHEAT/CT

E E3+ALL

L18 53363 WHEAT +OLD,NT/CT

E BARLEY/CT

E E3+ALL

L19 29269 BARLEY+NT/CT

E HORDEUM/CT

E E3+ALL

L20 26 L14 AND AGROCHEM?/CC,SX

E TRITICUM/CT

E E3+ALL

L21 0 (L14 OR L20) AND L18-19

E CROP/CT

E E6+ALL

L22 2239 "CROP (PLANT)"/CT

E PLANT/CT

E E3+ALL

L23 24717 PLANT/CT

L24 19513 EMBRYOPHYTA/CW

L25 2522 L23-24 (L) CROP?
L26 0 (L14 OR L20) AND (L22 OR L25)

FILE 'CABA' ENTERED AT 12:10:48 ON 01 SEP 2004
L27 0 L8-9

FILE 'AGRICOLA' ENTERED AT 12:11:10 ON 01 SEP 2004
L28 0 L8-9

FILE 'STNGUIDE' ENTERED AT 12:11:29 ON 01 SEP 2004

FILE 'EMBASE' ENTERED AT 12:16:35 ON 01 SEP 2004
L29 0 L8-9

FILE 'BIOSIS' ENTERED AT 12:17:16 ON 01 SEP 2004
L30 0 L8-9

FILE 'HCAPLUS' ENTERED AT 12:47:36 ON 01 SEP 2004
L31 27 L14 NOT L17

=> b hcap

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FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10
FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d all hitstr l31 tot

L31 ANSWER 1 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:534158 HCAPLUS
DN 141:71349
ED Entered STN: 02 Jul 2004
TI Method for the production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with an acid chloride
IN Maywald, Volker; Hoffmann, Nico; Keil, Michael; Vogelbacher, Uwe Josef; Wevers, Jan Hendrik
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DT Patent
LA German

Searched by Noble Jarrell

=> b reg

FILE 'REGISTRY' ENTERED AT 12:18:50 ON 01 SEP 2004
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provided by InfoChem.

STRUCTURE FILE UPDATES: 31 AUG 2004 HIGHEST RN 736193-62-7
DICTIONARY FILE UPDATES: 31 AUG 2004 HIGHEST RN 736193-62-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

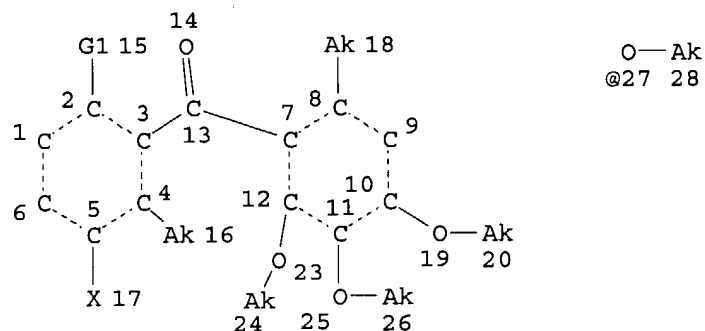
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d que stat l8

L6 STR



VAR G1=OH/27

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1 7

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L8 88 SEA FILE=REGISTRY CSS FUL L6

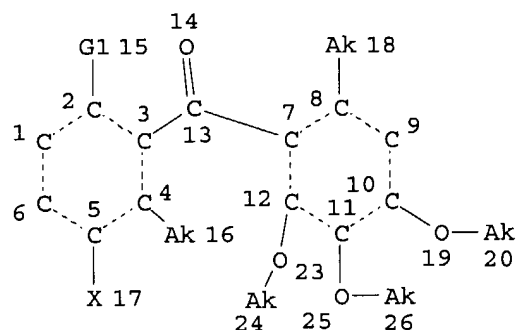
100.0% PROCESSED 1748 ITERATIONS

88 ANSWERS

SEARCH TIME: 00.00.01

=> d que stat l9

L6 STR



O—Ak
@27 28

VAR G1=OH/27

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1 7

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L8 88 SEA FILE=REGISTRY CSS FUL L6

L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND C19H21BRO5

=> d his

(FILE 'HOME' ENTERED AT 11:08:00 ON 01 SEP 2004)

L1 FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004
1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004

L2 FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004
TRA L1 1- RN : 5 TERMS

L3 FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004
5 SEA L2

L4 FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004
1 US20040063793/PN

L5 FILE 'REGISTRY' ENTERED AT 11:18:02 ON 01 SEP 2004
STR

L6 STR L5

L7 4 L6 CSS

L8 88 L6 CSS FULL

SAVE TEMP QAZI950FUL/A L8

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L10 FILE 'HCAPLUS' ENTERED AT 11:52:10 ON 01 SEP 2004
29 L8

L11 24 L9
E PSEUDOCERCOSPORELLA/CT
E E3+ALL

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 L12 223 PSEUDOCERCOSPORELLA HERPOTRICHOIDES+NT/CT
 E PSEUDOCERCOSPORELLA/CT
 E E3+ALL
 L13 238 PSEUDOCERCOSPORELLA+NT/CT
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 L15 0 L14 AND L13
 L16 226 (P OR PSEUDOCERCOSPORELLA) (1A) HERPOTRICHOIDES
 L17 1 L14 AND L16
 E WHEAT/CT
 E E3+ALL
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 E TRITICUM/CT
 E E3+ALL
 L21 0 (L14 OR L20) AND L18-19
 E CROP/CT
 E E6+ALL
 L22 2239 "CROP (PLANT)"/CT
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 L23 24717 PLANT/CT
 L24 19513 EMBRYOPHYTA/CW
 L25 2522 L23-24 (L) CROP?
 L26 0 (L14 OR L20) AND (L22 OR L25)

FILE 'CABA' ENTERED AT 12:10:48 ON 01 SEP 2004

L27 0 L8-9

FILE 'AGRICOLA' ENTERED AT 12:11:10 ON 01 SEP 2004

L28 0 L8-9

FILE 'STNGUIDE' ENTERED AT 12:11:29 ON 01 SEP 2004

FILE 'EMBASE' ENTERED AT 12:16:35 ON 01 SEP 2004

L29 0 L8-9

FILE 'BIOSIS' ENTERED AT 12:17:16 ON 01 SEP 2004

L30 0 L8-9

=> b hcap

FILE 'HCAPLUS' ENTERED AT 12:19:49 ON 01 SEP 2004

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L1 FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004
1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004

L2 FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004
TRA L1 1- RN : 5 TERMS

L3 FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004
5 SEA L2

L4 FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004
1 US20040063793/PN

=> b hcap

FILE 'HCAPLUS' ENTERED AT 11:09:24 ON 01 SEP 2004
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FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10
FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d all l1

L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:60223 HCAPLUS
DN 140:106945
ED Entered STN: 26 Jan 2004
TI Use of benzophenones as fungicides for controlling Pseudocercospora herpotrichoides
IN Gewehr, Markus; Rose, Ingo; Mueller, Bernd; Ammermann, Eberhard; Orth, Ann; Van Tuyl Cotter, Henry
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM A01N035-04
CC 5-2 (Agrochemical Bioregulators)

Searched by Noble Jarrell

FAN.CNT 1

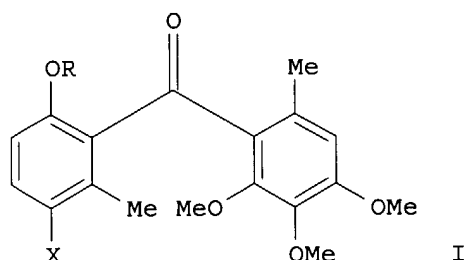
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004006675	A1	20040122	WO 2003-EP7255	20030707
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004063793	A1	20040401	US 2003-616950	20030711 <--
PRAI	US 2002-394932P	P	20020711		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004006675	ICM	A01N035-04

OS MARPAT 140:106945

GI



AB Benzophenones (I, R = H or C1-C4 alkyl; X = F, Cl, Br) are useful as fungicides for controlling *Pseudocercospora herpotrichoides* in cultivated plants. Thus, the incidence of eyespot disease in wheat inoculated with *P. herpotrichoides* was 0-25% when plants had been treated with 63 ppm I (R = Me or H; X = Br or Cl), whereas 100% of untreated plants were infected.

ST benzophenone fungicide *Pseudocercospora* control

IT Fungicides

Hordeum vulgare

Oculimacula yallundae

(benzophenones as fungicides for controlling *Pseudocercospora herpotrichoides* in crops)

IT Triticum aestivum

(disease, eyespot; benzophenones as fungicides for controlling *Pseudocercospora herpotrichoides* in crops)

IT 220899-03-6 220900-12-9 252955-10-5 252955-12-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicide for controlling *Pseudocercospora herpotrichoides* in crops)

IT 252955-11-6D, derivs.

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicides for controlling *Pseudocercospora herpotrichoides* in crops)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (2) American Cyanamid Co; EP 1023835 A 2000 HCAPLUS
- (3) Leadbitter, N; WO 0180643 A 2001 HCAPLUS
- (4) Novartis Erfind Verwalt GmbH; WO 0072677 A 2000 HCAPLUS

=> b reg

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STRUCTURE FILE UPDATES: 30 AUG 2004 HIGHEST RN 736108-36-4
DICTIONARY FILE UPDATES: 30 AUG 2004 HIGHEST RN 736108-36-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

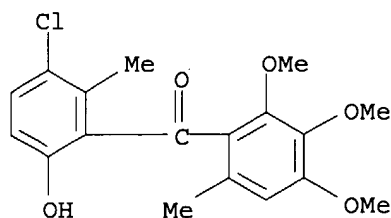
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide l3 tot

L3 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
RN 252955-12-7 REGISTRY
CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-methylphenyl)methanone
FS 3D CONCORD
MF C18 H19 Cl O5
CI COM
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN **252955-11-6** REGISTRY

CN Methanone, (2-hydroxy-6-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-
(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H20 O5

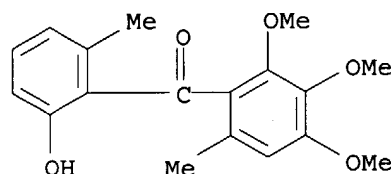
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN **252955-10-5** REGISTRY

CN Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H19 Br O5

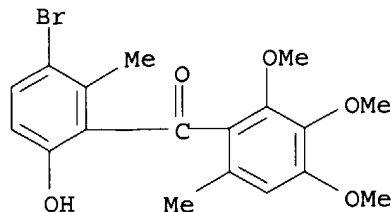
CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 220900-12-9 REGISTRY

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H21 Cl O5

CI COM

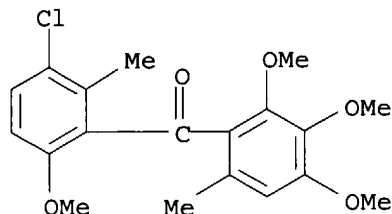
SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 220899-03-6 REGISTRY

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Metrafenone

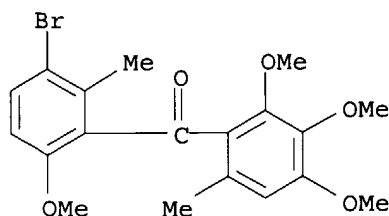
FS 3D CONCORD

MF C19 H21 Br O5

CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT, CBNB, TOXCENTER, USPAT2, USPATFULL
DT.CA CAPLUS document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT
(Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b wpix
FILE 'WPIX' ENTERED AT 11:09:40 ON 01 SEP 2004
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FILE LAST UPDATED: 26 AUG 2004 <20040826/UP>
MOST RECENT DERWENT UPDATE: 200455 <200455/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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<http://thomsonderwent.com/coverage/latestupdates/> <<<

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DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
FIRST VIEW - FILE WPIFV.
FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

>>> NEW DISPLAY FORMAT HITSTR ADDED ALLOWING DISPLAY OF
HIT STRUCTURES WITHIN THE BIBLIOGRAPHIC DOCUMENT <<<

=> d all 14

L4 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 2004-143018 [14] WPIX
DNC C2004-057621
TI Controlling Pseudocercospora herpotrichoides in crop plants, especially

wheat or barley, comprises use of hepta-substituted benzophenone derivatives.

DC C03
 IN AMMERMAN, E; COTTER, H V T; GEWEHR, M; MULLER, B; ORTH, A; ROSE, I; MUELLER, B; VAN TUYL COTTER, H
 PA (AMME-I) AMMERMAN E; (COTT-I) COTTER H V T; (GEWE-I) GEWEHR M; (MULL-I) MULLER B; (ORTH-I) ORTH A; (ROSE-I) ROSE I; (BADI) BASF AG
 CYC 105
 PI WO 2004006675 A1 20040122 (200414)* GE 17 A01N035-04
 RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
 US 2004063793 A1 20040401 (200425) A01N035-00 <--
 AU 2003250897 A1 20040202 (200450) A01N035-04
 ADT WO 2004006675 A1 WO 2003-EP7255 20030707; US 2004063793 A1 Provisional US 2002-394932P 20020711, US 2003-616950 20030711; AU 2003250897 A1 AU 2003-250897 20030707
 FDT AU 2003250897 A1 Based on WO 2004006675
 PRAI US 2002-394932P 20020711; US 2003-616950 20030711
 IC ICM A01N035-00; A01N035-04
 AB WO2004006675 A UPAB: 20040226
 NOVELTY - The use of 2',6-dimethyl-5-halo-2,4',5',6'-tetramethoxy- or 2-hydroxy-4',5',6'-trimethoxy-benzophenones (I) for controlling Pseudocercospora herpotrichoides in crop plants is new.
 DETAILED DESCRIPTION - The use of 2',6-dimethyl-5-halo-2,4',5',6'-tetramethoxy- or 2-hydroxy-4',5',6'-trimethoxy-benzophenones of formula (I) for controlling Pseudocercospora herpotrichoides in crop plants is new.
 R = H or 1-4C alkyl; and
 Hal = F, Cl or Br.
 ACTIVITY - Fungicide.
 In tests with wheat seedlings, pre-treatment with 5-bromo-2',6-dimethyl-2,4',5',6'-tetramethoxy-benzophenone (Ia) at a concentration of 63 ppm before contact with Pseudocercospora herpotrichoides spores reduced the degree of infection 40 days later from 100% (in untreated controls) to 0-25%.
 MECHANISM OF ACTION - None given in the source material.
 USE - Especially for controlling Pseudocercospora herpotrichoides in wheat or barley (claimed).
 ADVANTAGE - The known fungicides (I) (described in EP727141-A, EP897141-A and EP967196-A) have been found to show excellent activity against Pseudocercospora herpotrichoides
 Dwg.0/0
 FS CPI
 FA AB; GI; DCN
 MC CPI: C10-E02; C10-F02; C14-A04

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FILE 'HOME' ENTERED AT 11:09:52 ON 01 SEP 2004

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of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10
FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

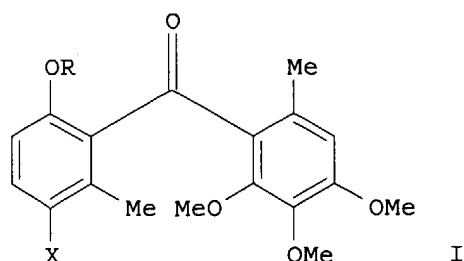
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L17 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:60223 HCAPLUS
DN 140:106945
ED Entered STN: 26 Jan 2004
TI Use of benzophenones as fungicides for controlling
Pseudocercospora herpotrichoides
IN Gewehr, Markus; Rose, Ingo; Mueller, Bernd; Ammermann, Eberhard; Orth, Ann; Van Tuyl Cotter, Henry
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM A01N035-04
CC 5-2 (Agrochemical Bioregulators)
FAN.CNT 1

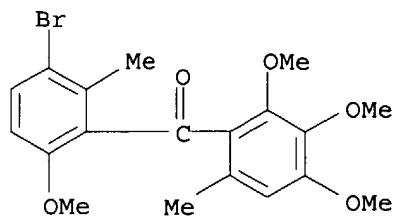
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004063793	A1	20040401	US 2003-616950	20030711 <--
PRAI	US 2002-394932P	P	20020711	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004006675	ICM	A01N035-04
OS	MARPAT 140:106945	
GI		



- AB Benzophenones (I, R = H or C1-C4 alkyl; X = F, Cl, Br) are useful as fungicides for controlling *Pseudocercospora herpotrichoides* in cultivated plants. Thus, the incidence of eyespot disease in wheat inoculated with *P. herpotrichoides* was 0-25% when plants had been treated with 63 ppm I (R = Me or H; X = Br or Cl), whereas 100% of untreated plants were infected.
- ST benzophenone fungicide *Pseudocercospora* control
- IT Fungicides
Hordeum vulgare
Oculimacula yallundae
 (benzophenones as fungicides for controlling ***Pseudocercospora herpotrichoides*** in crops)
- IT *Triticum aestivum*
 (disease, eyespot; benzophenones as fungicides for controlling ***Pseudocercospora herpotrichoides*** in crops)
- IT 220899-03-6 220900-12-9 252955-10-5
 252955-12-7
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (as fungicide for controlling ***Pseudocercospora herpotrichoides*** in crops)
- IT 252955-11-6D, derivs.
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (as fungicides for controlling ***Pseudocercospora herpotrichoides*** in crops)
- RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
 - (2) American Cyanamid Co; EP 1023835 A 2000 HCAPLUS
 - (3) Leadbitter, N; WO 0180643 A 2001 HCAPLUS
 - (4) Novartis Erfind Verwalt Gmbh; WO 0072677 A 2000 HCAPLUS
- IT 220899-03-6
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (as fungicide for controlling ***Pseudocercospora herpotrichoides*** in crops)
- RN 220899-03-6 HCAPLUS
- CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



IT 220899-03-6 220900-12-9 252955-10-5
252955-12-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)
(as fungicide for controlling **Pseudocercospora**
herpotrichoides in crops)

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IC ICM C07C045-46
ICS C07C045-81; C07C049-84; C07C051-60; C07C051-363
CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
FAN.CNT 1

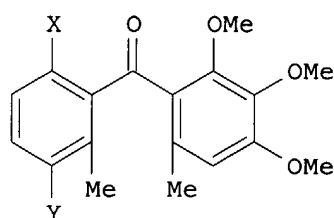
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004054953	A1	20040701	WO 2003-EP13483	20031201 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	PRAI DE 2002-10258669	A	20021213 <--		

CLASS

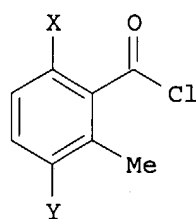
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004054953	ICM	C07C045-46
	ICS	C07C045-81; C07C049-84; C07C051-60; C07C051-363

OS CASREACT 141:71349

GI



I



II

AB Benzophenones [I; X = Cl, OH, OMe, Cl-6 alkylcarbonyloxy; Y = Cl, Br] were prepared by reacting an acid chloride II (X, Y as above) with 3,4,5-trimethoxytoluene. The reaction is carried out (1) in the presence of an aromatic diluent selected from chlorobenzene, benzotrifluoride, or nitrobenzene, (2) in the presence of 0.01-0.02 mol% Fe catalyst (based on the acid chloride), and (3) at a temperature between 60.degree. to a b.p. of the

diluent. Thus, a solution of 5-bromo-2-methoxy-6-methylbenzoyl chloride and anhydrous FeCl₃ in chlorobenzene was dosed to a solution of 3,4,5-trimethoxytoluene in chlorobenzene for 4 h at 145.degree. followed by stirring for 2 h at room temperature to give 99% (5-bromo-2-methoxy-6-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone with a selectivity of 99.4%.

ST bromomethoxymethylphenyltrimethoxymethylphenylmethanone prepn; methanone bromomethoxymethylphenyl trimethoxymethylphenyl prepn; trimethoxytoluene bromomethoxymethylbenzoyl chloride Friedel Crafts acylation iron chloride

IT Friedel-Crafts reaction

(Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride, for production of benzophenones by)

IT Friedel-Crafts reaction catalysts

(method for production of benzophenones by Friedel-Crafts acylation of

3,4,5-trimethoxytoluene with acid chloride)

IT 7705-08-0, Iron chloride, uses
 RL: CAT (Catalyst use); USES (Uses)
 (Friedel-Crafts acylation catalyst; method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 98-08-8, Benzotrifluoride 98-95-3, Nitrobenzene, uses 108-90-7, Chlorobenzene, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (diluent; for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT **220899-03-6P**
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 6161-65-5, Benzoic acid, 2-methoxy-6-methyl- 6443-69-2, 3,4,5-Trimethoxytoluene
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 220901-25-7P 712273-62-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

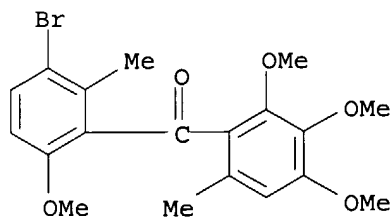
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
 (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
 (2) Basf Ag; WO 0151440 A 2001 HCAPLUS
 (3) Basf Ag; EP 1295877 A 2003 HCAPLUS

IT **220899-03-6P**
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



L31 ANSWER 2 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:451736 HCAPLUS

DN 140:419309

ED Entered STN: 04 Jun 2004

TI Synergistic fungicidal mixtures for rice containing metrafenone and a triazolopyrimidine derivative

IN Tormo I Blasco, Jordi; Grote, Thomas; Ammermann, Eberhard; Stierl, Reinhard; Strathmann, Siegfried; Schoefl, Ulrich

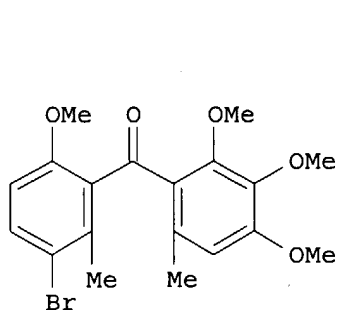
PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 14 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N035-00
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004045288	A2	20040603	WO 2003-EP12769	20031114 <--
	WO 2004045288	A3	20040729		
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	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
	PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,				
	TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,				
	CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,				
	NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,				
	GW, ML, MR, NE, SN, TD, TG				
PRAI DE	2002-10253586	A	20021115	<--	

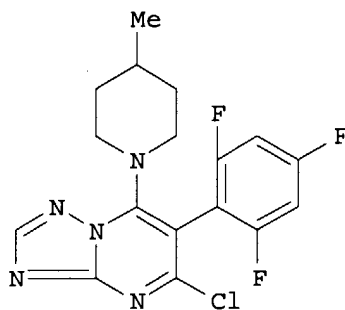
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004045288	ICM	A01N035-00

GI



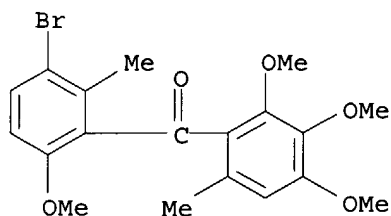
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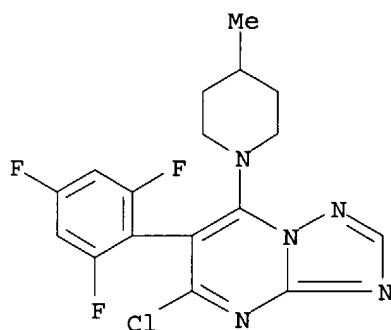
II

- AB Disclosed are fungicidal mixts. for controlling rice pathogens, containing synergistically effective amts. of metrafenone(I), and triazolopyrimidine derivative II.
- ST synergism fungicide rice metrafenone triazolopyrimidine deriv
- IT Pyricularia oryzae
 (control by synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)
- IT Oryza sativa
 (synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)
- IT Fungicides
 (synergistic, agrochem.; synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)

IT 692736-85-9
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture for rice)
IT 692736-85-9
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture for rice)
RN 692736-85-9 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-7-(4-methyl-1-piperidinyl)-6-(2,4,6-trifluorophenyl) [1,2,4]triazolo[1,5-a]pyrimidine (9CI) (CA INDEX NAME)
CM 1
CRN 220899-03-6
CMF C19 H21 Br O5



CM 2
CRN 214706-53-3
CMF C17 H15 Cl F3 N5



L31 ANSWER 3 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:387216 HCAPLUS
DN 140:370223
ED Entered STN: 13 May 2004
TI Synergistic fungicide mixtures containing an oxazinone derivative
IN Rheinheimer, Joachim; Grote, Thomas; Ammermann, Eberhard; Stierl, Reinhard; Strathmann, Siegfried; Schoefl, Ulrich
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent

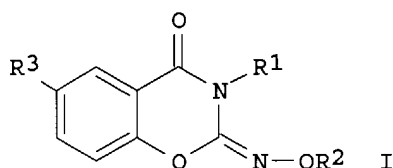
LA German
 IC ICM A01N043-86
 ICS A01N043-84; A01N043-653; A01N043-56; A01N043-54; A01N043-40;
 A01N043-30; A01N037-52; A01N037-44; A01N037-38; A01N035-04
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004039157	A1	20040513	WO 2003-EP11226	20031010 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI DE 2002-10250278	A	20021028 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004039157	ICM	A01N043-86
	ICS	A01N043-84; A01N043-653; A01N043-56; A01N043-54; A01N043-40; A01N043-30; A01N037-52; A01N037-44; A01N037-38; A01N035-04

OS MARPAT 140:370223
 GI



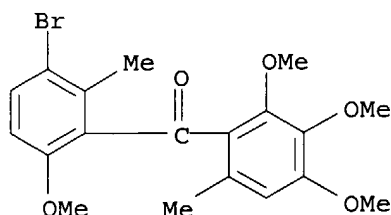
AB The invention relates to synergistic fungicide mixts. containing an oxazine I
 (R1 = Pr or Bu; R2 = Me, Et or Pr; R3 = F, Cl, Br or I) and at least one
 known fungicide.
 ST synergism fungicide mixt oxazinone deriv
 IT Fungicides
 (synergistic, agrochem.; mixts. containing an oxazinone derivative)
 IT 60207-90-1D, Propiconazole, mixts. with oxazinone derivs. 67306-00-7D,
 Fenpropidin, mixts. with oxazinone derivs. 67564-91-4D, Fenpropimorph,
 mixts. with oxazinone derivs. 81412-43-3D, Tridemorph, mixts. with
 oxazinone derivs. 107534-96-3D, Tebuconazole, mixts. with oxazinone
 derivs. 110488-70-5D, Dimethomorph, mixts. with oxazinone derivs.
 117428-22-5D, Picoxystrobin, mixts. with oxazinone derivs. 118134-30-8D,
 Spiroxamine, mixts. with oxazinone derivs. 125116-23-6D, Metconazole,
 mixts. with oxazinone derivs. 131860-33-8D, Azoxystrobin, mixts. with
 oxazinone derivs. 133855-98-8D, Epoxiconazole, mixts. with oxazinone
 derivs. 141517-21-7D, Trifloxystrobin, mixts. with oxazinone derivs.
 143390-89-0D, Kresoxim-methyl, mixts. with oxazinone derivs.

149961-52-4D, Dimoxystrobin, mixts. with oxazinone derivs. 175013-18-0D, Pyraclostrobin, mixts. with oxazinone derivs. 178928-70-6D, Prothioconazole, mixts. with oxazinone derivs. 180409-60-3D, Cyflufenamid, mixts. with oxazinone derivs. 188425-85-6D, Nicobifen, mixts. with oxazinone derivs. 220899-03-6D, mixts. with oxazinone derivs. 221201-92-9D, mixts. with oxazinone derivs.
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicides)

IT 220899-03-6D, mixts. with oxazinone derivs.
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicides)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 4 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:2594 HCAPLUS

DN 140:37411

ED Entered STN: 02 Jan 2004

TI Synergistic fungicidal mixtures based on benzamidoxime derivatives, benzophenones, and an azole

IN Ammermann, Eberhard; Stierl, Reinhard; Schoefl, Ulrich; Strathmann, Siegfried; Schelberger, Klaus; Scherer, Maria; Haden, Egon

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N037-52

ICS A01N035-04; A01N043-653; A01N043-56

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

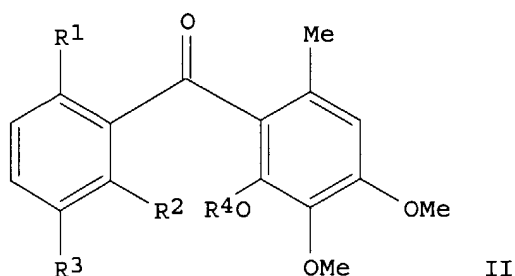
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004000019	A1	20031231	WO 2003-EP5949	20030606 <--
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI DE 2002-10227656 A 20020620 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004000019	ICM	A01N037-52
	ICS	A01N035-04; A01N043-653; A01N043-56

OS MARPAT 140:37411
GI



AB Fungicidal mixts. contain synergistically effective amts. of the following active constituents: (1) N-[[[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]benzeneacetamide (I) or a derivative wherein the benzeneacetamide moiety may have 1-3 substituents on the Ph ring chosen from among halo, C1-C4 alkyl, C1-C4 alkyl halide, or C1-C4 (halo)alkoxy; (2) a benzophenone (II), in which R1 = Cl, Me, MeO, AcO, pivaloyloxy, or OH; R2 = Cl or Me; R3 = H, halo, or Me; and R4 = C1-C6 alkyl or benzyl, whereby the Ph portion of the benzyl radical can be substituted by halo or Me; (3) epoxiconazole and, optionally; (4) pyraclostrobin. Thus, I + metrafenone + epoxiconazole at 0.25 + 0.25 + 1 ppm (1:1:4 mixture) synergistically controlled wheat powdery mildew caused by *Erysiphe graminis tritici*.

ST synergism fungicide benzamidoxime deriv benzophenone azole; epoxiconazole benzamidoxime deriv benzophenone fungicide synergism; pyraclostrobin benzamidoxime deriv benzophenone fungicide synergism

IT Fungicides
(synergistic; mixts. of benzamidoxime derivs. and benzophenones with epoxiconazole and pyraclostrobin)

IT 636603-37-7 636603-38-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as synergistic fungicide)

IT 133855-98-8D, Epoxiconazole, mixts. with benzamidoxime derivs. and benzophenones 175013-18-0D, Pyraclostrobin, mixts. with benzamidoxime derivs. and benzophenones 221201-92-9D, derivs., mixts. with benzophenones and azole 636603-36-6D, derivs., mixts. with benzamidoxime derivs. and azole
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as synergistic fungicides)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
 - (2) Leyendecker, J; WO 02056686 A 2002 HCAPLUS
 - (3) Nippon Soda Co; EP 1077028 A 2001 HCAPLUS
 - (4) Schelberger, K; WO 02062140 A 2002 HCAPLUS
- IT 636603-37-7 636603-38-8

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)
(as synergistic fungicide)

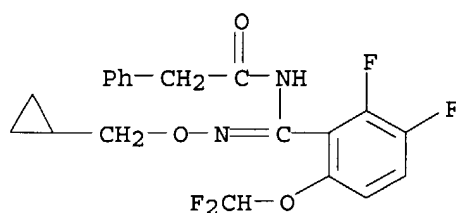
RN 636603-37-7 HCAPLUS

CN Benzeneacetamide, N-[[[(cyclopropylmethoxy) amino] [6-(difluoromethoxy)-2,3-difluorophenyl]methylene]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone and
rel-1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9

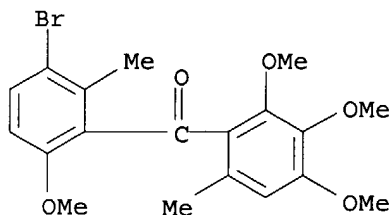
CMF C20 H18 F4 N2 O3



CM 2

CRN 220899-03-6

CMF C19 H21 Br O5

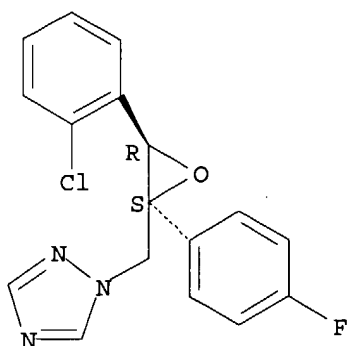


CM 3

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.



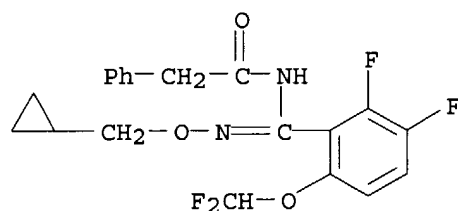
RN 636603-38-8 HCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone and N-[[[(cyclopropylmethoxy)amino] [6-(difluoromethoxy)-2,3-difluorophenyl]methylene]benzeneacetamide (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9

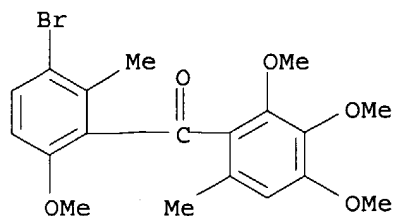
CMF C20 H18 F4 N2 O3



CM 2

CRN 220899-03-6

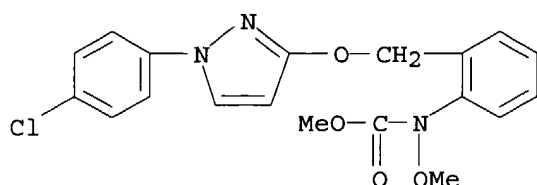
CMF C19 H21 Br O5



CM 3

CRN 175013-18-0

CMF C19 H18 Cl N3 O4



L31 ANSWER 5 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:875033 HCAPLUS
 DN 139:334300
 ED Entered STN: 07 Nov 2003
 TI Synergistic fungicidal mixtures comprising prothioconazole
 IN Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Schoefl, Ulrich;
 Strathmann, Siegfried; Schelberger, Klaus; Christen, Thomas
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 48 pp.
 CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N043-653

ICS A01N047-34; A01N047-26; A01N047-18; A01N043-78; A01N043-50;
 A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N037-52;
 A01N037-46; A01N037-38; A01N035-06; A01N035-04; A01N033-18

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003090538	A1	20031106	WO 2003-EP2845	20030319 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI DE 2002-10212704	A	20020321 <--		

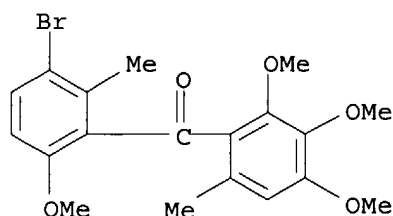
CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

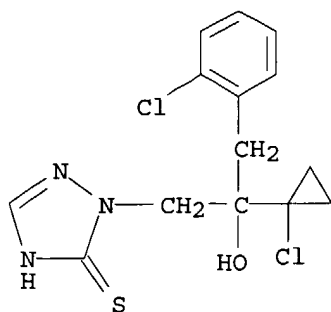
WO 2003090538	ICM	A01N043-653
	ICS	A01N047-34; A01N047-26; A01N047-18; A01N043-78; A01N043-50; A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N037-52; A01N037-46; A01N037-38; A01N035-06; A01N035-04; A01N033-18

AB The invention relates to a fungicidal mixture that comprises prothioconazole or its salts or adducts and at least one further fungicidal composition, selected from compds. such as boscalid, carboxine, metrafenone, quinoxifen, dithianon, thiram, mepiquat chloride, cyazofamid, fenoxanil, thiophanate Me, carbendazim, metalaxyl, fludioxonil, thiabendazole, quintozone, prochloraz or anthraquinone, in a synergistically effective

amount
 ST synergism fungicide prothioconazole mixt
 IT Fungicides
 (synergistic; mixts. comprising prothioconazole)
 IT 215246-03-0 319920-19-9 345205-96-1 616235-45-1 616235-46-2,
 Prothioconazole-carboxin mixture **616235-47-3** 616235-48-4
 616235-49-5 616235-50-8 616235-51-9 616235-52-0 616235-53-1
 616235-54-2 616235-55-3 616235-56-4 616235-57-5 616235-58-6
 616235-59-7 616235-60-0 616235-61-1
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal composition)
 IT 178928-70-6D, Prothioconazole, mixts. containing
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal compns.)
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Astrid, M; WO 9847370 A 1998 HCAPLUS
 (2) Stenzel, K; WO 9847367 A 1998 HCAPLUS
 (3) Wieland, K; WO 0180641 A 2001
 IT **616235-47-3**
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal composition)
 RN 616235-47-3 HCAPLUS
 CN 3H-1,2,4-Triazole-3-thione, 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-
 2-hydroxypropyl]-1,2-dihydro-, mixt. with (3-bromo-6-methoxy-2-
 methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX
 NAME)
 CM 1
 CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2
 CRN 178928-70-6
 CMF C14 H15 Cl2 N3 O S



L31 ANSWER 6 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:356023 HCAPLUS
 DN 138:337828
 ED Entered STN: 09 May 2003
 TI Preparation of diphenylmethanol derivatives as agricultural fungicides
 IN Rose, Ingo; Tormo i Blasco, Jordi; Gewehr, Markus; Grammenos, Wassilios;
 Mueller, Bernd; Rheinheimer, Joachim; Schaefer, Peter; Schieweck, Frank;
 Grote, Thomas; Gypser, Andreas; Ammermann, Eberhard; Lorenz, Gisela;
 Stierl, Reinhard; Strathmann, Siegfried; Carter, Paul; Curtze, Juergen
 PA BASF Aktiengesellschaft, Germany
 SO Eur. Pat. Appl., 58 pp.
 CODEN: EPXXDW

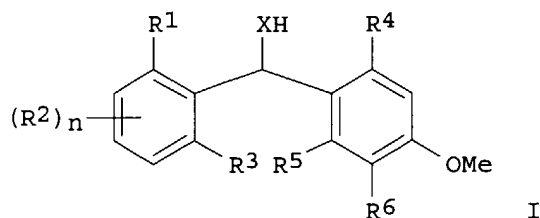
DT Patent
 LA German
 IC ICM C07C069-14
 ICS C07C039-42; C07C323-19; A01N031-14; A01N031-16; A01N033-10;
 A01N037-38; A01N037-40
 CC 25-7 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1308433	A1	20030507	EP 2002-23344	20021018 <--
EP 1308433	B1	20040428		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
AT 265414	E	20040515	AT 2002-23344	20021018 <--
JP 2003206252	A2	20030722	JP 2002-313232	20021028 <--
US 2003207938	A1	20031106	US 2002-282023	20021029 <--
US 6767923	B2	20040727		
PRAI DE 2001-10153300	A	20011031		<--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1308433	ICM	C07C069-14
	ICS	C07C039-42; C07C323-19; A01N031-14; A01N031-16; A01N033-10; A01N037-38; A01N037-40
EP 1308433	ECLA	C07C043/23; C07C069/017; C07C323/25B
OS	MARPAT	138:337828
GI		



AB Title compds. [I; X = O, S; R1, R3 = halo, cyano, NO2, SH, amino, alkyl, alkenyl, alkynyl, alkoxy, etc.; R2 = halo, cyano, NO2, SH, amino, alkyl, alkoxy, haloalkyl, haloalkoxy; n = 0-2; R4 = (halogenated) alkyl, alkenyl, alkynyl; R5, R6 = OH, alkyl, alkenyl, haloalkyl, haloalkenyl, alkoxy, alkenyloxy, haloalkoxy, haloalkenyloxy, etc.], were prepared Thus, 2.36 g 2,3,4-trimethoxy-6-methylbromobenzene and Mg cuttings in THF were refluxed with 1,2-dibromoethane for 40 min followed by stirring with 1.4 g 5-bromo-2-methoxy-6-methylbenzaldehyde for 2 h at 30.degree. to give 1.5 g I (X = O; R1, R5, R6 = OMe; R3, R4 = Me; R2 = 3-Br; n = 1). The latter at 4 or 16 ppm showed >70% control of powdery mildew on wheat.

ST diphenylmethanol prepn agricultural fungicide; methanol diphenyl prepn agricultural fungicide

IT Fungicides
(agrochem.; preparation of diphenylmethanol derivs. as agricultural fungicides)

IT 515861-96-8P 515861-99-1P 515862-02-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of diphenylmethanol derivs. as agricultural fungicides)

IT 72326-72-8 137644-93-0 **252955-12-7** 459836-90-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of diphenylmethanol derivs. as agricultural fungicides)

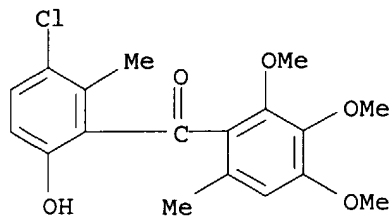
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
(2) Ici Plc; EP 0015756 A 1980 HCAPLUS
(3) Mayer, D; US 3340294 A 1967 HCAPLUS

IT **252955-12-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of diphenylmethanol derivs. as agricultural fungicides)

RN 252955-12-7 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



AN 2003:242097 HCAPLUS
 DN 138:267201
 ED Entered STN: 28 Mar 2003
 TI Pesticidal compositions for coating plant propagation material containing anthranilamides
 IN Berger, Richard Alan; Flexner, John Lindsey
 PA E. I. Du Pont de Nemours & Co., USA
 SO PCT Int. Appl., 147 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N043-56
 CC 5-4 (Agrochemical Bioregulators)
 Section cross-reference(s): 28

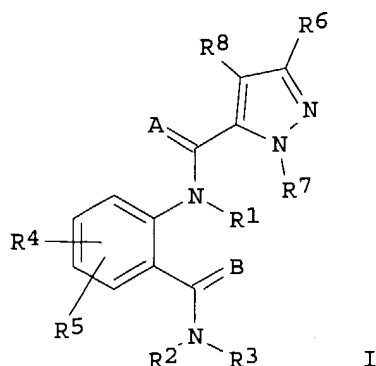
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003024222	A1	20030327	WO 2002-US30302	20020910 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1427285	A1	20040616	EP 2002-775972	20020910 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRAI US 2001-323941P	P	20010921 <--		
WO 2002-US30302	W	20020910 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003024222	ICM	A01N043-56

OS MARPAT 138:267201
 GI



- AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, .gamma.-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.
- ST arthropodicide insecticide anthranilamide prepn propagule seed
- IT Insecticides
(carbamate; in pesticidal compns. for plant propagation material containing anthranilamides)
- IT Leaf
(cutting; pesticidal compns. containing anthranilamides for treatment of)
- IT Eubacteria
Fungi
Virus
(entomopathogenic; in pesticidal compns. for plant propagation material containing anthranilamides)
- IT Adhesives
Bacillus thuringiensis aizawai
Bacillus thuringiensis kurstaki
Baculoviridae
Coating materials
Fungicides
GABA antagonists
Gums and Mucilages
Latex
(in pesticidal compns. for plant propagation material containing anthranilamides)
- IT Macrolides
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing anthranilamides)
- IT Acrylic polymers, biological studies
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing anthranilamides)
- IT Fats and Glyceridic oils, biological studies
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing anthranilamides)
- IT Gelatins, biological studies
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing anthranilamides)
- IT Oils
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing anthranilamides)

- IT Polyoxyalkylenes, biological studies
RL: AGR (Agricultural use); TEM (Technical or engineered material use);
BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing
anthranilamides)
- IT Polysaccharides, biological studies
RL: AGR (Agricultural use); TEM (Technical or engineered material use);
BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing
anthranilamides)
- IT Proteins
RL: AGR (Agricultural use); TEM (Technical or engineered material use);
BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing
anthranilamides)
- IT Shellac
RL: AGR (Agricultural use); TEM (Technical or engineered material use);
BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing
anthranilamides)
- IT Waxes
RL: AGR (Agricultural use); TEM (Technical or engineered material use);
BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing
anthranilamides)
- IT Zeins
RL: AGR (Agricultural use); TEM (Technical or engineered material use);
BIOL (Biological study); USES (Uses)
(in pesticidal compns. for plant propagation material containing
anthranilamides)
- IT Juvenile hormones
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)
(mimics; in pesticidal compns. for plant propagation material containing
anthranilamides)
- IT Melon (plant)
(musk-; pesticidal compns. containing anthranilamides for plant propagation
material of)
- IT Insecticides
(neonicotinoid; in pesticidal compns. for plant propagation material
containing anthranilamides)
- IT Onion (*Allium cepa*)
(ornamental; pesticidal compns. containing anthranilamides for plant
propagation material of)
- IT Anemone
Arachis hypogaea
Armeria
Avena sativa
Begonia tuberhybrida
Beta vulgaris
Brassica juncea
Brassica nigra
Brassica oleracea capitata
Calla
Capsicum
Chionodoxa
Chrysanthemum
Coleus
Cosmos (plant)
Crocus (plant)

Cucumis sativus
Cyclamen
Dahlia (plant)
Daucus carota
Freesia
Geranium (horticultural common name)
Gerbera
Gladiolus
Gloxinia (genus)
Gossypium hirsutum
Gypsophila elegans
Helianthus annuus
Hordeum vulgare
Hyacinth (plant)
Impatiens
Iris (plant)
Lactuca sativa
Liatris spicata
Lilium
Linum usitatissimum
Lisianthus
Lycopersicon esculentum
Marigold
Medicago sativa
Muscari racemosum
Narcissus
Nicotiana tabacum
Onion (Allium cepa)
Oryza sativa
Oxalis corniculata
Petunia
Phaseolus lunatus
Phaseolus vulgaris
Pisum sativum
Puschkinia libanotica
Rapeseed
Scabiosa atropurpurea
Secale cereale
Snapdragon (Antirrhinum)
Solanum melongena
Solanum tuberosum
Sorghum
Soybean (Glycine max)
Squash (Cucurbita)
Squill (plant)
Sweet potato
Triticum turgidum durum
Tulip
Turnip
Vicia faba
Viola wittrockiana
Watermelon (Citrullus lanatus)
Yam (Dioscorea)
Yarrow (Achillea)
Zea mays
Zinnia
Zizania
(pesticidal compns. containing anthranilamides for plant propagation material of)

IT Bulb (plant)

Seed
 Stem
 Tuber (plant organ)
 (pesticidal compns. containing anthranilamides for treatment of)

IT Pyrethrins
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
 (Biological study); USES (Uses)
 (pyrethroids; in pesticidal compns. for plant propagation material
 containing anthranilamides)

IT Stem
 (rhizome; pesticidal compns. containing anthranilamides for treatment of)

IT Ion channel blockers
 (sodium; in pesticidal compns. for plant propagation material containing
 anthranilamides)

IT Toxins
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
 (Biological study); USES (Uses)
 (.delta.-endotoxins; in pesticidal compns. for plant propagation
 material containing anthranilamides)

IT

362637-52-3	362637-54-5	362637-55-6	362637-56-7	362637-57-8
362637-58-9	362637-59-0	362637-60-3	362637-61-4	362637-62-5
362637-63-6	362637-64-7	362637-65-8	362637-66-9	362637-67-0
362637-68-1	362637-69-2	362637-71-6	362637-72-7	362637-73-8
362637-74-9	362637-75-0	362637-76-1	362637-77-2	362637-78-3
362637-79-4	362637-80-7	362637-81-8	362637-82-9	362637-83-0
362637-84-1	362637-85-2	362637-86-3	362637-87-4	362637-88-5
362637-89-6	362637-90-9	362637-91-0	362637-92-1	362637-93-2
362637-94-3	362637-95-4	362637-96-5	362637-97-6	362637-98-7
362637-99-8	362638-00-4	362638-03-7	362638-04-8	362638-05-9
362638-06-0	362638-07-1	362638-08-2	362638-09-3	362638-10-6
362638-11-7	362638-12-8	362638-13-9	362638-14-0	362638-15-1
362638-16-2	362638-17-3	362638-18-4	362638-19-5	362638-20-8
362638-21-9	362638-22-0	362638-23-1	362638-24-2	362638-25-3
362638-26-4	362638-27-5	362638-28-6	362638-29-7	362638-31-1
362638-32-2	362638-33-3	362638-34-4	362638-35-5	362638-36-6
362638-37-7	362638-38-8	362638-39-9	362638-40-2	362638-41-3
362638-42-4	362638-43-5	362638-44-6	362638-45-7	362638-46-8
362638-47-9	362638-48-0	362638-49-1	362638-50-4	362638-51-5
362638-52-6	362638-53-7	362638-54-8	362638-55-9	362638-56-0
362638-57-1	362638-58-2	362638-59-3	362638-60-6	362638-63-9
362638-64-0	362638-65-1	362638-66-2	362638-67-3	362638-68-4
362638-69-5	362638-70-8	362638-71-9	362638-72-0	362638-73-1
362638-74-2	362638-75-3	362638-76-4	362638-77-5	362638-78-6
362638-79-7	362638-80-0	362638-81-1	362638-82-2	362638-83-3
362638-84-4	362638-85-5	362638-86-6	362638-87-7	362638-88-8
362638-89-9	362638-90-2	362638-91-3	362638-92-4	362638-93-5
362638-94-6	362638-95-7	362638-96-8	362638-97-9	362638-98-0
362638-99-1	362639-00-7	362639-01-8	362639-02-9	362639-03-0
362639-04-1	362639-05-2	362639-06-3	362639-07-4	362639-09-6
362639-10-9	362639-11-0	362639-12-1	362639-13-2	362639-14-3
362639-15-4	362639-16-5	362639-17-6	362639-18-7	362639-19-8
362639-20-1	362639-21-2	362639-22-3	362639-23-4	362639-25-6
362639-26-7	362639-27-8	362639-28-9	362639-29-0	362639-30-3
362639-31-4	362639-32-5	362639-33-6	362639-34-7	362639-35-8
362639-36-9	362639-37-0	362639-38-1	362639-40-5	362639-41-6
362639-42-7	362639-43-8	362639-44-9	362639-45-0	362639-46-1
362639-47-2	362639-48-3	362639-49-4	362639-50-7	362639-51-8
362639-52-9	362639-53-0	362639-54-1	362639-55-2	362639-56-3
362639-57-4	362639-58-5	362639-59-6	362639-60-9	362639-61-0
362639-63-2	362639-64-3	362639-65-4	362639-66-5	362639-67-6

362639-68-7	362639-69-8	362639-70-1	362639-71-2	362639-73-4
362639-74-5	362639-75-6	362639-76-7	362639-77-8	362639-78-9
362639-79-0	362639-80-3	362639-81-4	362639-82-5	362639-85-8
362640-64-0	362640-65-1	500005-50-5	500005-52-7	500005-53-8
500005-54-9	500005-55-0	500005-56-1	500005-57-2	500005-58-3
500005-59-4	500005-64-1	500005-65-2	500005-69-6	500005-70-9
500005-71-0	500005-72-1			

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT	500005-73-2	500005-74-3	500005-75-4	500005-76-5	500005-77-6
	500005-78-7	500005-79-8	500005-80-1	500005-81-2	500005-82-3
	500005-84-5	500005-85-6	500005-86-7	500005-87-8	500005-88-9
	500005-89-0	500005-90-3	500005-94-7	500005-95-8	500005-97-0
	500005-98-1	500005-99-2	500006-00-8	500006-01-9	500006-02-0
	500006-03-1	500006-04-2	500006-05-3	500006-06-4	500006-07-5
	500006-08-6	500006-09-7	500006-10-0	500006-11-1	500006-12-2
	500006-13-3	500006-14-4	500006-15-5	500006-16-6	500006-17-7
	500006-18-8	500006-19-9	500006-20-2	500006-21-3	500006-22-4
	500006-23-5	500006-24-6	500006-25-7	500006-26-8	500006-27-9
	500006-29-1	500006-30-4	500006-31-5	500006-32-6	500006-33-7
	500006-34-8	500006-35-9	500006-36-0	500006-37-1	500006-39-3
	500006-41-7	500006-43-9	500006-45-1	500006-47-3	500006-49-5
	500006-50-8	500006-51-9	500006-52-0	500006-53-1	500006-54-2
	500006-55-3	500006-56-4	500006-57-5	500006-58-6	500006-59-7
	500006-60-0	500006-61-1	500006-62-2	500006-63-3	500006-64-4
	500006-65-5	500006-66-6	500006-67-7	500006-68-8	500006-69-9
	500006-70-2	500006-71-3	500006-72-4	500006-73-5	500006-74-6
	500006-75-7	500006-76-8	500006-78-0	500006-79-1	500006-80-4
	500006-81-5	500006-82-6	500006-83-7	500006-84-8	500006-85-9
	500006-86-0	500006-87-1	500006-88-2	500006-89-3	500006-90-6
	500006-91-7	500006-92-8	500006-93-9	500006-94-0	500006-95-1
	500006-96-2	500006-97-3	500006-98-4	500006-99-5	500007-00-1
	500007-01-2	500007-02-3	500007-03-4	500007-04-5	500007-05-6
	500007-07-8	500007-08-9	500007-09-0	500007-10-3	500007-11-4
	500007-12-5	500007-13-6	500007-14-7	500007-15-8	500007-16-9
	500007-17-0	500007-20-5	500007-21-6	500007-23-8	500007-25-0
	500007-26-1	500007-27-2	500007-28-3	500007-29-4	500007-30-7
	500007-31-8	500007-32-9	500007-33-0	500007-34-1	500007-35-2
	500007-36-3	500007-37-4	500007-38-5	500007-39-6	500007-40-9
	500007-41-0	500007-42-1	500007-43-2	500007-44-3	500007-45-4
	500007-46-5	500007-47-6	500007-48-7	500007-49-8	500007-50-1
	500007-51-2	500007-53-4	500007-54-5	500007-55-6	500007-56-7
	500007-57-8	500007-58-9	500007-59-0	500007-60-3	500007-61-4
	500007-62-5	500007-63-6	500007-64-7	500007-65-8	500007-67-0
	500007-68-1	500007-69-2	500007-70-5	500007-71-6	500007-72-7
	500007-73-8	500007-74-9	500007-75-0	500007-76-1	500007-77-2
	500007-78-3	500007-80-7	500007-81-8	500007-82-9	500007-83-0
	500007-84-1	500007-85-2	500007-87-4	500007-88-5	500007-89-6
	500007-90-9	500007-91-0	500007-92-1	500007-93-2	500007-94-3
	500007-95-4	500007-96-5	500007-97-6	500008-02-6	500008-03-7
	500008-04-8	500008-05-9	500008-06-0	500008-07-1	500008-10-6
	500008-11-7	500008-12-8	500008-14-0	500008-18-4	500008-19-5
	500008-20-8	500008-21-9	500008-23-1	500008-25-3	500008-27-5
	500008-29-7	500008-30-0	500008-32-2	500008-34-4	500008-35-5
	500008-36-6	500008-37-7	500008-39-9	500008-41-3	500008-42-4
	500008-47-9	500008-49-1	500008-51-5	500008-53-7	500008-54-8
	500008-55-9	500008-56-0			

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT	500008-57-1	500008-58-2	500008-59-3	500008-64-0	500008-66-2
	500008-67-3	500008-68-4	500008-69-5	500008-70-8	500008-71-9
	500008-72-0	500008-73-1	500008-74-2	500008-75-3	500008-76-4
	500008-77-5	500008-79-7	500008-80-0	500008-81-1	500008-82-2
	500008-84-4	500008-85-5	500008-86-6	500008-87-7	500008-88-8
	500008-89-9	500008-90-2	500008-91-3	500008-92-4	500008-93-5
	500008-94-6	500008-95-7	500008-98-0	500008-99-1	500009-00-7
	500009-01-8	500009-03-0	500009-04-1	500009-05-2	500009-06-3
	500009-07-4	500009-08-5	500009-09-6	500009-10-9	500009-11-0
	500009-12-1	500009-14-3	500009-16-5	500009-18-7	500009-20-1
	500009-21-2	500009-23-4	500009-25-6	500009-26-7	500009-27-8
	500009-28-9	500009-29-0	500009-30-3	500009-31-4	500009-32-5
	500009-33-6	500009-34-7	500009-35-8	500009-36-9	500009-37-0
	500009-38-1	500009-39-2	500009-40-5	500009-41-6	500009-42-7
	500009-43-8	500009-44-9	500009-45-0	500009-46-1	500009-47-2
	500009-49-4	500009-50-7	500009-51-8	500009-52-9	500009-53-0
	500009-54-1	500009-55-2	500009-56-3	500009-57-4	500009-58-5
	500009-59-6	500009-60-9	500009-61-0	500009-62-1	500009-65-4
	500009-66-5	500009-67-6	500009-68-7	500009-69-8	500009-77-8
	500009-78-9	500009-79-0	500009-82-5	500009-83-6	500009-84-7
	500009-86-9	500009-87-0	500009-88-1	500009-89-2	500009-90-5
	500009-91-6	500009-92-7	500009-93-8	500009-94-9	500009-95-0
	500009-96-1	500009-97-2	500009-98-3	500009-99-4	500010-00-4
	500010-01-5	500010-02-6	500010-03-7	500010-04-8	500010-05-9
	500010-06-0	500010-07-1	500010-08-2	500010-09-3	500010-11-7
	500010-12-8	500010-13-9	500010-14-0	500010-15-1	500010-16-2
	500010-17-3	500010-18-4	500010-19-5	500010-20-8	500010-21-9
	500010-22-0	500010-23-1	500010-25-3	500010-26-4	500010-27-5
	500010-28-6	500010-29-7	500010-30-0	500010-31-1	500010-32-2
	500010-33-3	500010-34-4	500010-35-5	500010-36-6	500010-37-7
	500010-38-8	500010-39-9	500010-40-2	500010-41-3	500010-42-4
	500010-43-5	500010-44-6	500010-45-7	500010-46-8	500010-47-9
	500010-48-0	500010-49-1	500010-50-4	500010-51-5	500010-52-6
	500010-53-7	500010-54-8	500010-55-9	500010-56-0	500010-57-1
	500010-58-2	500010-59-3	500010-60-6	500010-61-7	500010-62-8
	500010-63-9	500010-64-0	500010-65-1	500010-67-3	500010-68-4
	500010-69-5	500010-70-8	500010-71-9	500010-72-0	500010-73-1
	500010-74-2	500010-75-3	500010-76-4	500010-77-5	500010-79-7
	500010-80-0	500010-81-1	500010-82-2	500010-83-3	500010-84-4
	500010-85-5	500010-86-6	500010-87-7	500010-88-8	500010-89-9
	500010-90-2	500010-91-3	500010-92-4	500010-93-5	500010-94-6
	500010-95-7	500010-96-8	500010-97-9	500010-98-0	500010-99-1
	500011-00-7	500011-01-8	500011-02-9	500011-04-1	500011-05-2
	500011-06-3	500011-07-4	500011-08-5	500011-10-9	500011-11-0
	500011-12-1	500011-13-2	500011-14-3	500011-15-4	500011-16-5
	500011-17-6	500011-18-7	500011-19-8	500011-20-1	500011-21-2
	500011-22-3	500011-23-4	500011-24-5	500011-25-6	500011-26-7
	500011-27-8	500011-28-9			

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT	500011-29-0	500011-31-4	500011-37-0	500011-38-1	500011-39-2
	500011-40-5	500011-41-6	500011-42-7	500011-43-8	500011-44-9
	500011-45-0	500011-46-1	500011-47-2	500011-48-3	500011-49-4
	500011-50-7	500011-51-8	500011-52-9	500011-53-0	500011-54-1
	500011-55-2	500011-56-3	500011-57-4	500011-58-5	500011-59-6
	500011-60-9	500011-61-0	500011-62-1	500011-63-2	500011-64-3
	500011-80-3	503163-52-8	503163-54-0	503163-56-2	503163-66-4

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL

(Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT 362639-39-2 362639-72-3 500005-60-7 500005-61-8 500005-62-9
 500005-63-0 500005-66-3 500005-67-4 500005-68-5 500005-83-4
 500005-91-4 500005-92-5 500005-93-6 500005-96-9 500006-28-0
 500007-18-1 500007-19-2 500007-22-7 500007-98-7 500007-99-8
 500008-13-9 500009-19-8 500009-22-3 500009-24-5 500009-70-1
 500009-71-2 500009-72-3 500009-73-4 500009-74-5 500009-75-6
 500009-76-7 500009-85-8 500010-66-2 500011-03-0 500011-09-6
 500011-30-3 500011-32-5 500011-33-6 500011-35-8 500011-36-9
 500011-65-4 500011-66-5 500011-67-6 500011-68-7 500011-69-8
 500011-70-1 500011-71-2 500011-72-3 500011-73-4 500011-74-5
 500011-75-6 500011-76-7 500011-77-8 500011-78-9 500011-79-0
 503163-58-4 503163-61-9 503163-64-2

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT 52-68-6 56-38-2 57-13-6D, Urea, derivs. 60-51-5, Dimethoate
 72-43-5 76-87-9, Fentin hydroxide 83-79-4 86-50-0, Azinphos-methyl
 99-30-9, Dicloran 108-62-3 115-29-7 115-32-2 116-06-3 121-75-5
 133-06-2, Captan 133-07-3, Folpet 137-26-8, Thiram 148-79-8,
 Thiabendazole 298-00-0 298-02-2 333-41-5, Diazinon 510-15-6
 732-11-6 900-95-8, Fentin acetate 944-22-9 950-37-8 1332-40-7,
 Copper oxychloride 1563-66-2, Carbofuran 1897-45-6, Chlorothalonil
 2079-00-7, Blastocidin-S 2227-17-0 2310-17-0 2312-35-8 2425-06-1,
 Captafol 2439-01-2 2439-10-3, Dodine 2675-77-6, Chloroneb
 2921-88-2, Chlorpyrifos 5598-13-0, Chlorpyrifos-methyl 6585-53-1,
 Ferric methanearsonate 6923-22-4 6980-18-3, Kasugamycin 7440-50-8D,
 Copper, salts 7704-34-9, Sulfur, biological studies 8011-63-0,
 Bordeaux mixture 8018-01-7, Mancozeb 10265-92-6 10605-21-7,
 Carbendazim 11141-17-6, Azadirachtin 12427-38-2, Maneb 13071-79-9
 13121-70-5 13171-21-6 13356-08-6 16752-77-5 17109-49-8, Edifenphos
 17804-35-2, Benomyl 22224-92-6 22248-79-9 23103-98-2 23135-22-0
 23564-05-8, Thiophanate-methyl 24579-73-5, Propamocarb 25311-71-1
 26087-47-8, Iprobenfos 27605-76-1, Probenazole 30560-19-1, Acephate
 33089-61-1 35367-38-5, Diflubenzuron 35400-43-2 36734-19-7,
 Iprodione 39148-24-8, Fosetylaluminum 39515-41-8 40596-69-8
 41198-08-7 41814-78-2, Tricyclazole 43121-43-3, Triadimefon
 50471-44-8, Vinclozolin 50512-35-1, Isoprothiolane 50642-14-3,
 Validamycin 51630-58-1 52207-48-4 52315-07-8, Cypermethrin
 52645-53-1 52918-63-5, Deltamethrin 53112-28-0, Pyrimethanil
 55219-65-3, Triadimenol 55814-41-0, Mepronil 57369-32-1, Pyroquilon
 57646-30-7, Furalaxyl 57837-19-1, Metalaxyl 57966-95-7, Cymoxanil
 58842-20-9 59669-26-0 60168-88-9, Fenarimol 60207-90-1,
 Propiconazole 62850-32-2 62865-36-5, Diclomezine 63837-33-2,
 Diofenolan 64628-44-0 66063-05-6, Pencycuron 66215-27-8, Cyromazine
 66230-04-4 66246-88-6, Penconazole 66332-96-5, Flutolanil 66841-25-6
 67306-00-7, Fenpropidin 67564-91-4, Fenpropimorph 67747-09-5,
 Prochloraz 68085-85-8, Cyhalothrin 68359-37-5, Cyfluthrin
 69327-76-0, Buprofezin 70124-77-5 70630-17-0, Mefenoxam 71422-67-8,
 Chlorfluaazuron 71751-41-2, Abamectin 72490-01-8 73989-17-0,
 Avermectin 74738-17-3, Fenpiclonil 76674-21-0, Flutriafol
 77732-09-3, Oxadixyl 78587-05-0 79538-32-2 79622-59-6, Fluazinam
 79983-71-4, Hexaconazole 80060-09-9, Diafenthiuron 82657-04-3,
 Bifenthrin 83121-18-0 83657-18-5, Diniconazole-M 83657-24-3,
 Diniconazole 84466-05-7, Amidoflumet 85509-19-9, Flusilazole
 86479-06-3 88283-41-4, Pyrifenox 88671-89-0, Myclobutanil 91465-08-6
 94361-06-5, Cyproconazole 95737-68-1 96489-71-3 101463-69-8
 102851-06-9 103055-07-8 104030-54-8, Carpropamid 107534-96-3,
 Tebuconazole 110488-70-5, Dimethomorph 111988-49-9 112226-61-6

112281-77-3, Tetraconazole 112410-23-8 114369-43-6, Fenbuconazole
 116255-48-2, Bromuconazole 116714-46-6 118134-30-8, Spiroxamine
 119168-77-3 119446-68-3, Difenconazole 119791-41-2, Enamectin
 120068-37-3 120928-09-8 121451-02-3 121552-61-2, Cyprodinil
 122453-73-0, Chlorfenapyr 123312-89-0 123572-88-3, Furametpyr
 124495-18-7, Quinoxifen 125116-23-6, Metconazole 125225-28-7,
 Ipconazole 126448-41-7, Acibenzolar 130000-40-7, Thifluzamide
 131341-86-1, Fludioxonil 131807-57-3, Famoxadone 131860-33-8,
 Azoxystrobin 131983-72-7, Triticonazole 133408-50-1, Metominostrobin
 133855-98-8, Epoxiconazole 134098-61-6 136426-54-5, Fluquinconazole
 138261-41-3 139920-32-4, Diclocymet 140923-17-7, SZX0722
 141517-21-7, Trifloxystrobin 143390-89-0, Kresoxim-methyl 143807-66-3,
 Chromafenozide 149877-41-8, Bifenazate 149961-52-4, Dimoxystrobin
 153233-91-1 153719-23-4 154025-04-4, Flumetover 156052-68-5, RH 7281
 158062-67-0 160430-64-8, Acetamiprid 161050-58-4 161326-34-7
 168316-95-8, Spinosad 170015-32-4 173584-44-6 175013-18-0,
 Pyraclostrobin 178928-70-6, Prothioconazole 179101-81-6 180409-60-3,
 Cyflufenamid 181587-01-9 188425-85-6, Nicobifen 189278-12-4,
 Proquinazid 210880-92-5, Clothianidin 211867-47-9, SYP-L190
 220899-03-6, Metrafenone 223580-51-6, Tiadinil 248593-16-0,
 Orysastrobin 283594-90-1 361377-29-9, Fluoxastrobin

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
 (Biological study); USES (Uses)

(in pesticidal compns. for plant propagation material containing
 anthranilamides)

IT 75-35-4D, Vinylidene chloride, polymers and copolymers 79-41-4D,
 Methylacrylic acid, imide derivs. 79-41-4D, Acrylimide, polymers and
 copolymers, imide derivs. 8062-15-5, Lignosulfonate 9000-01-5, Gum
 arabic 9000-30-0, Guar gum 9000-36-6, Karaya gum 9000-65-1,
 Tragacanth gum 9002-89-5 9002-89-5D, Polyvinyl alcohol, copolymers
 9003-09-2, Polyvinyl methyl ether 9003-20-7D, Polyvinyl acetate,
 derivs., copolymers 9003-39-8, Polyvinylpyrrolidone 9004-32-4,
 Carboxymethylcellulose 9004-34-6D, Cellulose, derivs. 9004-53-9,
 Dextrins 9004-57-3, Ethylcellulose 9004-64-2, Hydroxypropylcellulose
 9004-67-5D, Methylcellulose, derivs. 9005-25-8D, Starch, derivs.
 9005-32-7, Alginic acid 9010-98-4, Polychloroprene 9011-16-9
 9012-76-4, Chitosan 9050-36-6, Malto-dextrin 25086-89-9 25322-68-3,
 Polyethylene oxide 26022-14-0, Polyhydroxyethyl acrylate 30811-69-9,
 Polyvinylacrylate 37353-59-6D, Hydroxymethylcellulose, derivs.
 69670-80-0, Hydroxymethylpropylcellulose

RL: AGR (Agricultural use); TEM (Technical or engineered material use);
 BIOL (Biological study); USES (Uses)

(in pesticidal compns. for plant propagation material containing
 anthranilamides)

IT 362637-53-4P 362637-70-5P 362638-30-0P 362639-62-1P 438450-41-0P,
 N-[4-Chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-
 pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide 500008-00-4P
 500008-44-6P 500008-45-7P 500008-60-6P 500008-62-8P 500010-10-6P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of anthranilamide compds. as pesticides for plant propagation
 material)

IT 129585-50-8P

RL: BYP (Byproduct); SPN (Synthetic preparation); PREP (Preparation)

(preparation of anthranilamide compds. as pesticides for plant propagation
 material)

IT 74-89-5, Methylamine, reactions 75-03-6, Iodoethane 75-31-0,
 Isopropylamine, reactions 76-05-1, Trifluoroacetic acid, reactions
 79-37-8, Oxalyl chloride 98-59-9, p-Toluenesulfonyl chloride 100-63-0,

Phenylhydrazine 109-72-8, n-Butyllithium, reactions 112-02-7,
 Cetyltrimethylammonium chloride 121-44-8, Triethylamine, reactions
 124-63-0, Methanesulfonyl chloride 128-09-6, N-Chlorosuccinimide
 367-57-7 421-50-1, 1,1,1-Trifluoroacetone 503-38-8, Trichloromethyl
 chloroformate 541-41-3, Ethyl chloroformate 584-08-7, Potassium
 carbonate 630-25-1, 1,2-Dibromotetrachloroethane 1310-58-3, Potassium
 hydroxide, reactions 2402-77-9, 2,3-Dichloropyridine 4111-54-0,
 Lithium diisopropylamide 4389-45-1, 2-Amino-3-methylbenzoic acid
 4755-77-5, Ethyl chlorooxoacetate 5437-38-7, 3-Methyl-2-nitrobenzoic
 acid 6226-25-1, 2,2,2-Trifluoroethyl trifluoromethanesulfonate
 7087-68-5, N,N-Diisopropylethylamine 7664-93-9, Sulfuric acid, reactions
 7789-69-7, Phosphorus pentabromide 10025-87-3, Phosphorus oxychloride
 10035-10-6, Hydrogen bromide, reactions 14521-80-3, 3-Bromopyrazole
 20154-03-4, 3-Trifluoromethylpyrazole 22206-57-1, Tetrabutylammonium
 fluoride hydrate 22841-92-5 65753-47-1, 2-Chloro-3-
 trifluoromethylpyridine 66176-17-8, 3-Methylisatoic anhydride
 133228-21-4 458543-79-8 499790-43-1 500011-81-4 500011-88-1
 500011-94-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of anthranilamide compds. as pesticides for plant propagation material)

IT 14339-33-4P, 3-Chloropyrazole 20776-67-4P, 2-Amino-3-methyl-5-
 chlorobenzoic acid 68289-10-1P, 2-Amino-3-methyl-N-(1-
 methylethyl)benzamide 120374-68-7P 128694-66-6P 362640-53-7P,
 3-Methyl-N-(1-methylethyl)-2-nitrobenzamide 362640-58-2P 362640-59-3P
 362640-60-6P 362640-61-7P 362640-62-8P 438450-38-5P,
 3-Chloro-2-[3-(trifluoromethyl)-1H-pyrazol-1-yl]pyridine 438450-39-6P
 438450-40-9P, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-
 pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 458543-77-6P
 458543-78-7P 499790-45-3P 499790-46-4P 500011-82-5P 500011-83-6P
 500011-84-7P 500011-85-8P 500011-86-9P 500011-87-0P 500011-89-2P
 500011-90-5P 500011-91-6P 500011-92-7P 500011-95-0P 500011-96-1P
 500011-97-2P 500011-98-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of anthranilamide compds. as pesticides for plant propagation material)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Du Pont; WO 0170671 A 2001 HCAPLUS

(2) Mitsubishi Chem Ind; EP 0289879 A 1988 HCAPLUS

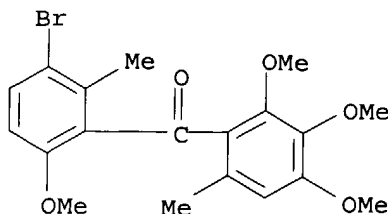
IT 220899-03-6, Metrafenone

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
 (Biological study); USES (Uses)

(in pesticidal compns. for plant propagation material containing
 anthranilamides)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
 methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 8 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:238323 HCAPLUS
 DN 138:255100
 ED Entered STN: 27 Mar 2003
 TI Preparation of xanthenes as agricultural fungicides
 IN Rose, Ingo; Tormo i Blasco, Jordi; Gewehr, Markus; Grammenos, Wassilios;
 Mueller, Bernd; Rheinheimer, Joachim; Schaefer, Peter; Schieweck, Frank;
 Grote, Thomas; Gypser, Andreas; Ammermann, Eberhard; Lorenz, Gisela;
 Stierl, Reinhard; Strathmann, Siegfried
 PA BASF Aktiengesellschaft, Germany
 SO Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM C07D311-86
 ICS A01N043-16
 CC 27-14 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 5

FAN.CNT 1

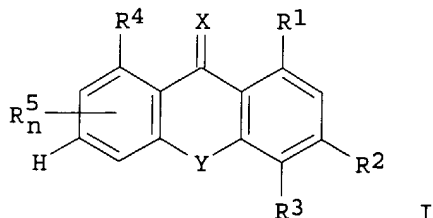
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1295877	A1	20030326	EP 2002-20207	20020910 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2003201289	A2	20030718	JP 2002-272397	20020919 <--
US 6576595	B1	20030610	US 2002-251783	20020923 <--
PRAI DE 2001-10146706	A	20010921	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1295877	ICM	C07D311-86
	ICS	A01N043-16
EP 1295877	ECLA	A01N043/16; C07C045/46; C07C045/54; C07C049/84; C07D311/86

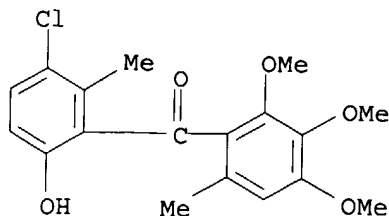
OS MARPAT 138:255100

GI



AB Title compds. [I; R1 = (halo)alkyl; R2, R3 = H, alkoxy, alkenyloxy, alkynyloxy; or R2R3 = (substituted) oxyalkyloxy; R4, R5 = halo, cyano, OH, amino, SH, (halo)alkyl, (halo)alkoxy, (halo)alkylthio, alkylcarbonyl, alkylcarbonylthio; n = 0-2; X, Y = O, S], were prepared. Thus, a mixture of Na in MeOH was treated with 1-(2,6-dichlorophenyl)-1-(2-hydroxy-3,4-dimethoxy-6-methylphenyl)methanone (preparation given) in DME at 0.degree.-5.degree. under protective atmospheric followed by stirring for 72 h at 80.degree. and precipitation with H2O/AcOH to give 100% 3,4,8-trimethoxy-1-methylxanthen-9-one.

- I (R1 = Me; R2-R4 = OMe; R5 = 7-Cl; X, Y = O) at 4-16 ppm gave .gtoreq.97% control of *Blumeria graminis forma specialis tritici*.
- ST xanthone prepn agricultural fungicide
- IT Fungicides
(agrochem.; preparation of xanthenes as agricultural fungicides)
- IT 502847-04-3P, 3,4,8-Trimethoxy-1-methylxanthen-9-one
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of xanthenes as agricultural fungicides)
- IT 502847-05-4P, 5-Bromo-3,4,8-trimethoxy-1-methylxanthen-9-one
502847-06-5P, 7-Chloro-3,4-dimethoxy-1,8-dimethylxanthen-9-one
502847-09-8P 502847-10-1P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of xanthenes as agricultural fungicides)
- IT 3282-30-2, Pivaloyl chloride 4659-45-4, 2,6-Dichlorobenzoyl chloride 6443-69-2, 3,4,5-Trimethoxytoluene 33528-09-5, Benzoic acid, 2-hydroxy-6-methyl-, methyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of xanthenes as agricultural fungicides)
- IT 183726-43-4P, 1-(2,6-Dichlorophenyl)-1-(2-hydroxy-3,4-dimethoxy-6-methylphenyl)methanone 203109-73-3P **252955-12-7P**, 1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-methylphenyl)methanone 252955-16-1P, 2,2-Dimethylpropionic acid 4-chloro-3-methyl-2-[1-(2,3,4-trimethoxy-6-methylphenyl)carbonyl]phenyl ester 502847-07-6P 502847-08-7P, 3-Chloro-6-(2,2-dimethylpropanoyloxy)-2-methylbenzoic acid
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of xanthenes as agricultural fungicides)
- RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Avar, L; US 4661595 A 1987 HCAPLUS
 - (2) Basf Ag; DE 4301424 A 1994 HCAPLUS
 - (3) Interlab Corp; WO 9734482 A 1997 HCAPLUS
 - (4) Kato, T; HETEROCYCLES 1976, 1
 - (5) Novonordisk As; EP 0507039 A 1992 HCAPLUS
- IT **252955-12-7P**, 1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-methylphenyl)methanone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of xanthenes as agricultural fungicides)
- RN 252955-12-7 HCAPLUS
- CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



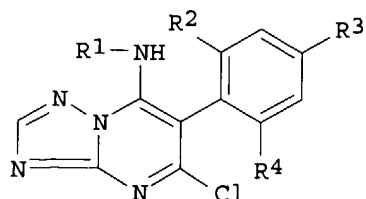
L31 ANSWER 9 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:675750 HCAPLUS
 DN 137:181098
 ED Entered STN: 08 Sep 2002
 TI Synergistic fungicidal mixtures comprising a benzophenone derivative
 IN Cotter, Henry Van Tuyl; Reichert, Gunter; Sieverding, Ewald; Jegerings,
 Petrus Martinus Franciscus Emanuel
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N035-04
 ICS A01N035-04; A01N059-20; A01N059-02; A01N055-00; A01N047-44;
 A01N047-38; A01N047-14; A01N047-04; A01N043-82; A01N043-76;
 A01N043-653; A01N043-60; A01N043-54; A01N043-42; A01N043-40;
 A01N043-36; A01N043-32; A01N043-30; A01N037-50
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002067679	A1	20020906	WO 2001-EP1823	20010219 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI WO 2001-EP1823		20010219 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002067679	ICM	A01N035-04
	ICS	A01N035-04; A01N059-20; A01N059-02; A01N055-00; A01N047-44; A01N047-38; A01N047-14; A01N047-04; A01N043-82; A01N043-76; A01N043-653; A01N043-60; A01N043-54; A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N043-30; A01N037-50

OS MARPAT 137:181098
 GI



AB Fungicidal compns. for controlling the growth of phytopathogenic fungi
 comprise synergistically effective amts. of (a) a benzophenone derivative
 (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-

methylphenyl)methanone (REG 220899-03-6) and (b) at least one fungicidally active ingredient selected from groups (A), (B), (C), (D) and (E): (A) an ergosterol biosynthesis inhibitor; (B) a strobilurine derivative; (C) a melanin biosynthesis inhibitor; (D) a compound selected from the group consisting of acibenzolar, benomyl, captan, carboxin, chlorothalonil, copper, cyprodinil, dinocap, dithianon, dimethomorph, dodine, ethirimol, famoxadone, fenpiclonil, fluazinam, mancozeb, metalaxyl, pyrifenoxy, sulfur, vinclozolin; and (E) a triazolopyrimidine I (Markush included).

ST synergism fungicide benzophenone deriv mixt
 IT Fungicides
 (synergistic; synergistic fungicidal mixts. comprising benzophenone derivative)

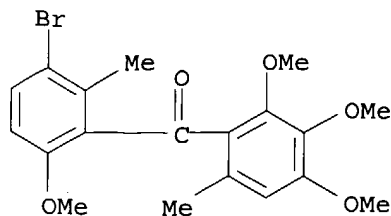
IT 220899-03-6
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (mixts. with fungicides; synergistic fungicidal compns. containing)

IT 7440-50-8D, Copper, compds., mixture with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone
 368872-60-0 451486-11-6 451486-12-7
 451486-13-8 451486-14-9 451486-15-0
 451486-16-1 451486-17-2 451486-18-3
 451486-19-4 451486-20-7 451486-21-8
 451486-22-9 451486-23-0 451486-24-1
 451486-25-2 451486-26-3 451486-27-4
 451486-28-5 451486-29-6 451486-30-9
 451486-31-0 451486-32-1 451486-33-2
 451486-34-3 451486-35-4 451486-36-5
 451486-37-6 451486-38-7 451486-39-8
 451486-40-1 451486-41-2 451486-42-3
 451486-43-4 451486-44-5 451486-45-6
 451486-46-7 451486-47-8 451486-48-9
 451486-49-0 451486-50-3 451486-51-4
 451486-52-5 451486-53-6 451486-54-7
 451486-55-8 451486-56-9 451486-57-0
 451486-58-1 451486-59-2 451486-60-5
 451486-61-6
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal compns. containing)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
 (2) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
 (3) American Cyanamid Co; EP 1023837 A 2000 HCAPLUS
 (4) Novartis Erfind Verwalt GmbH; WO 0072677 A 2000 HCAPLUS
 (5) Novartis Erfind Verwalt GmbH; WO 0076317 A 2000 HCAPLUS

IT 220899-03-6
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (mixts. with fungicides; synergistic fungicidal compns. containing)

RN 220899-03-6 HCAPLUS
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



IT 368872-60-0 451486-11-6 451486-12-7
 451486-13-8 451486-14-9 451486-15-0
 451486-16-1 451486-17-2 451486-18-3
 451486-19-4 451486-20-7 451486-21-8
 451486-22-9 451486-23-0 451486-24-1
 451486-25-2 451486-26-3 451486-27-4
 451486-28-5 451486-29-6 451486-30-9
 451486-31-0 451486-32-1 451486-33-2
 451486-34-3 451486-35-4 451486-36-5
 451486-37-6 451486-38-7 451486-39-8
 451486-40-1 451486-41-2 451486-42-3
 451486-43-4 451486-44-5 451486-45-6
 451486-46-7 451486-47-8 451486-48-9
 451486-49-0 451486-50-3 451486-51-4
 451486-52-5 451486-53-6 451486-54-7
 451486-55-8 451486-56-9 451486-57-0
 451486-58-1 451486-59-2 451486-60-5
 451486-61-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
 (Biological study); USES (Uses)
 (synergistic fungicidal compns. containing)

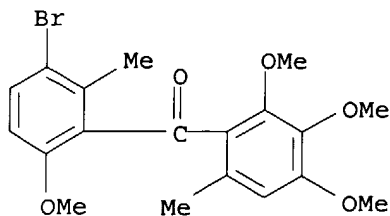
RN 368872-60-0 HCAPLUS

CN Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.-
 (methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with
 (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
 methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

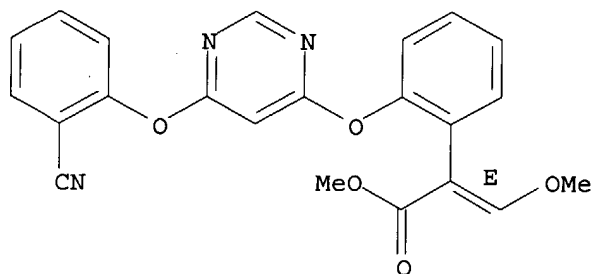


CM 2

CRN 131860-33-8

CMF C22 H17 N3 O5

Double bond geometry as shown.



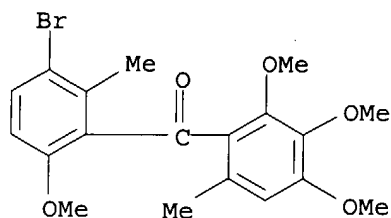
RN 451486-11-6 HCAPLUS

CN 1,2,3-Benzothiadiazole-7-carbothioic acid, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

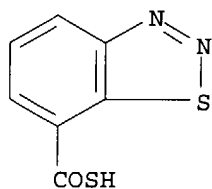
CMF C19 H21 Br O5



CM 2

CRN 126448-41-7

CMF C7 H4 N2 O S2



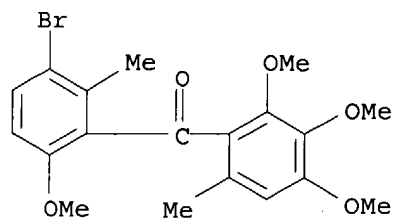
RN 451486-12-7 HCAPLUS

CN Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

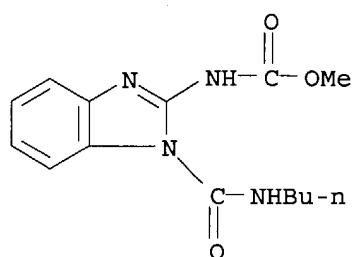
CMF C19 H21 Br O5



CM 2

CRN 17804-35-2

CMF C14 H18 N4 O3



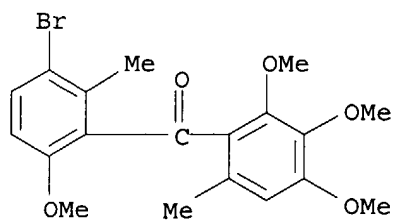
RN 451486-13-8 HCAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

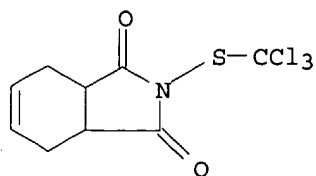
CMF C19 H21 Br O5



CM 2

CRN 133-06-2

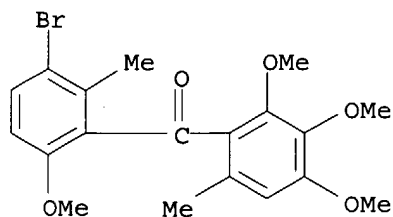
CMF C9 H8 Cl3 N O2 S



RN 451486-14-9 HCAPLUS
 CN 1,4-Oxathiin-3-carboxamide, 5,6-dihydro-2-methyl-N-phenyl-, mixt. with
 (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
 methylphenyl)methanone (9CI) (CA INDEX NAME)

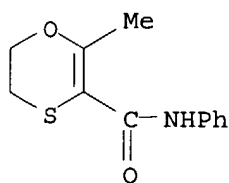
CM 1

CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

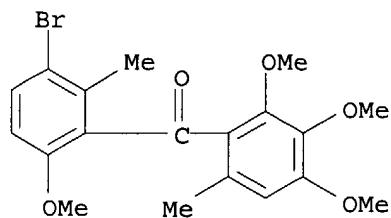
CRN 5234-68-4
 CMF C12 H13 N O2 S



RN 451486-15-0 HCAPLUS
 CN 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-, mixt. with
 (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
 methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

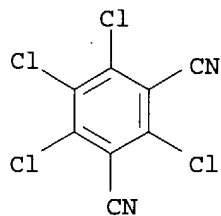
CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

CRN 1897-45-6

CMF C8 C14 N2



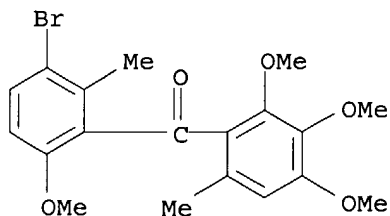
RN 451486-16-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 4-cyclopropyl-6-methyl-N-phenyl-2-pyrimidinamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

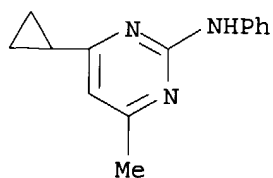
CMF C19 H21 Br O5



CM 2

CRN 121552-61-2

CMF C14 H15 N3



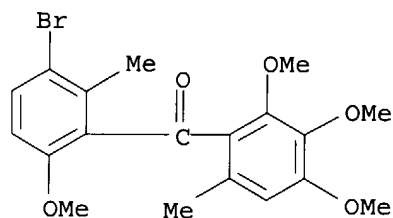
RN 451486-17-2 HCAPLUS

CN 2-Butenoic acid, 2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

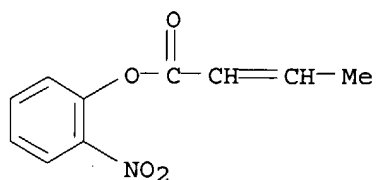


CM 2

CRN 39300-45-3

CMF C18 H24 N2 O6

CCI IDS



D1-NO₂

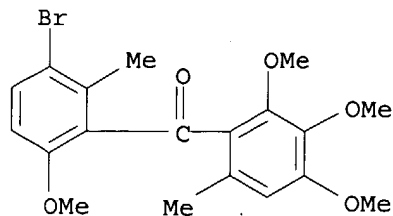
D1- (C₈H₁₇)

RN 451486-18-3 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

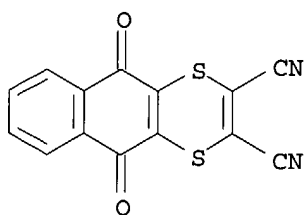
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

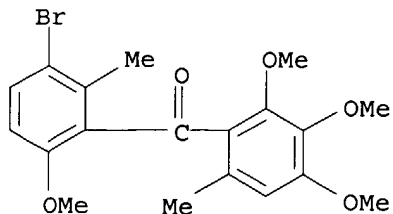
CRN 3347-22-6
CMF C14 H4 N2 O2 S2



RN 451486-19-4 HCAPLUS
CN Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

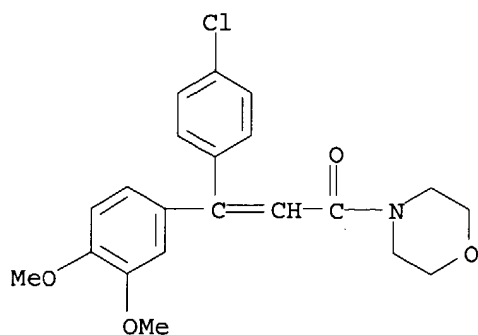
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

CRN 110488-70-5
CMF C21 H22 Cl N O4



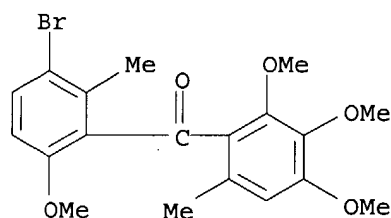
RN 451486-20-7 HCAPLUS

CN Guanidine, dodecyl-, monoacetate, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

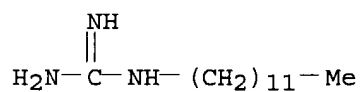
CRN 2439-10-3

CMF C13 H29 N3 . C2 H4 O2

CM 3

CRN 112-65-2

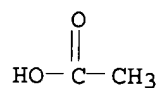
CMF C13 H29 N3



CM 4

CRN 64-19-7

CMF C2 H4 O2



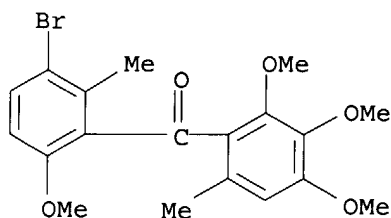
RN 451486-21-8 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-butyl-2-(ethylamino)-6-methyl-4(1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

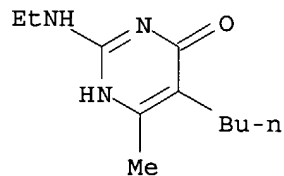
CMF C19 H21 Br O5



CM 2

CRN 23947-60-6

CMF C11 H19 N3 O



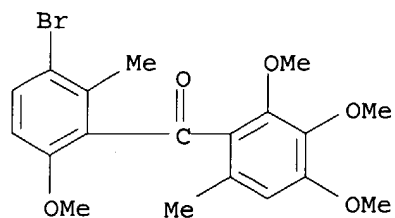
RN 451486-22-9 HCAPLUS

CN 2,4-Oxazolidinedione, 5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

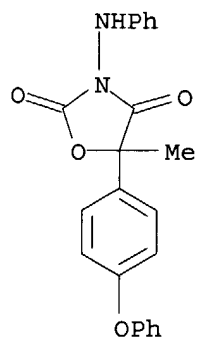
CMF C19 H21 Br O5



CM 2

CRN 131807-57-3

CMF C22 H18 N2 O4



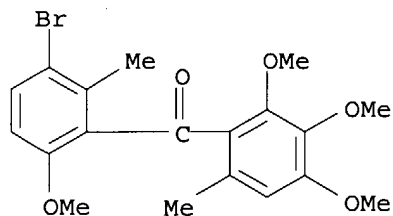
RN 451486-23-0 HCAPLUS

CN 1H-Pyrrole-3-carbonitrile, 4-(2,3-dichlorophenyl)-, mixt. with
(3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

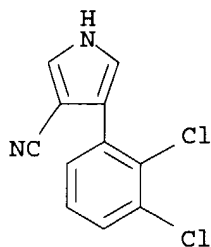
CMF C19 H21 Br O5



CM 2

CRN 74738-17-3

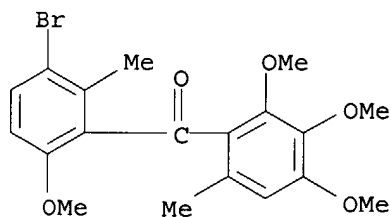
CMF C11 H6 C12 N2



RN 451486-24-1 HCAPLUS
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine (9CI) (CA INDEX NAME)

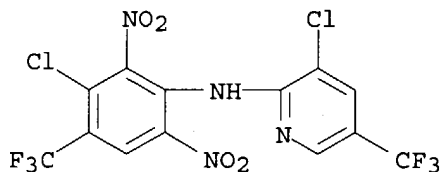
CM 1

CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

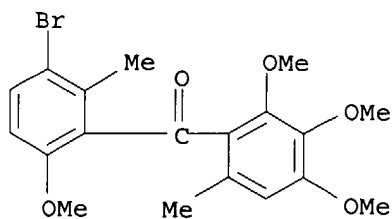
CRN 79622-59-6
 CMF C13 H4 Cl2 F6 N4 O4



RN 451486-25-2 HCAPLUS
 CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']zinc (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6
 CMF C19 H21 Br O5

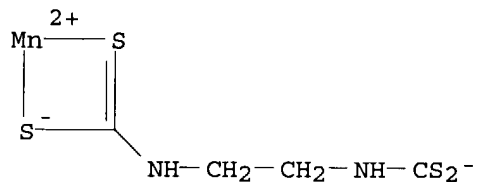


CM 2

CRN 12427-38-2

CMF C4 H6 Mn N2 S4

CCI CCS

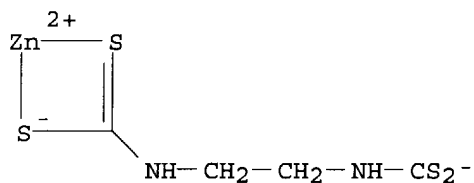


CM 3

CRN 12122-67-7

CMF C4 H6 N2 S4 Zn

CCI CCS



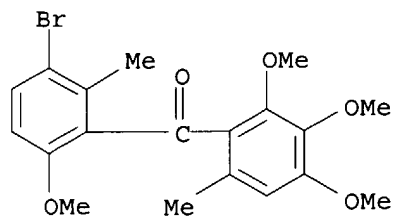
RN 451486-26-3 HCAPLUS

CN Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt.
with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

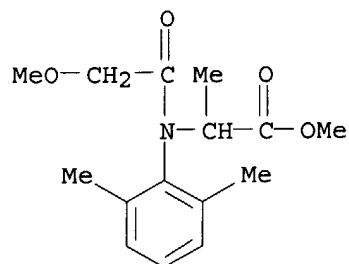
CMF C19 H21 Br O5



CM 2

CRN 57837-19-1

CMF C15 H21 N O4



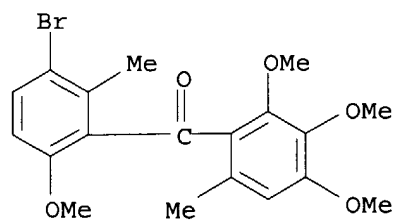
RN 451486-27-4 HCAPLUS

CN Ethanone, 1-(2,4-dichlorophenyl)-2-(3-pyridinyl)-, O-methyloxime, mixt.
with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

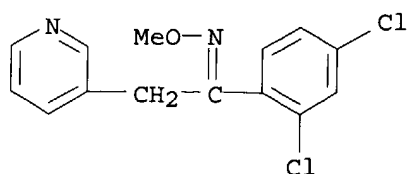
CMF C19 H21 Br O5



CM 2

CRN 88283-41-4

CMF C14 H12 Cl2 N2 O



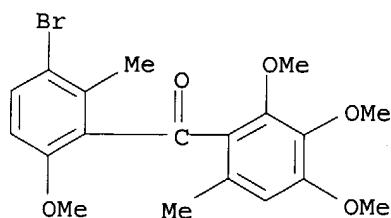
RN 451486-28-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with sulfur (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

CRN 7704-34-9

CMF S

S

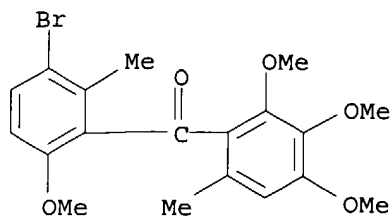
RN 451486-29-6 HCAPLUS

CN 2,4-Oxazolidinedione, 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

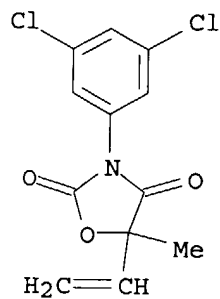
CMF C19 H21 Br O5



CM 2

CRN 50471-44-8

CMF C12 H9 Cl2 N O3



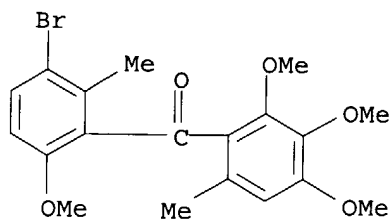
RN 451486-30-9 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

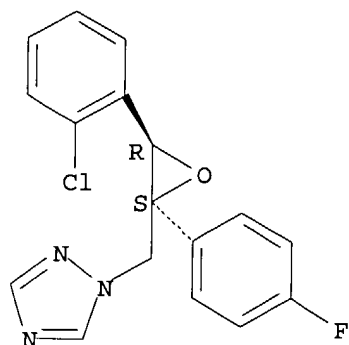


CM 2

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.



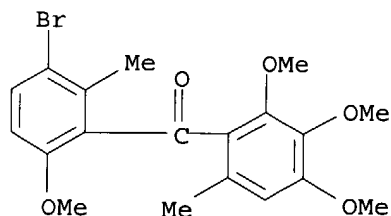
RN 451486-31-0 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[[bis(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

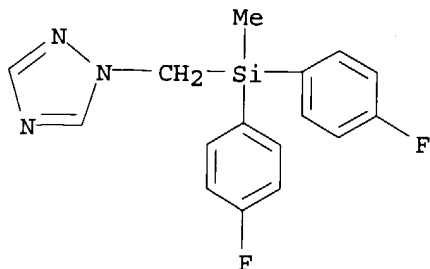
CMF C19 H21 Br O5



CM 2

CRN 85509-19-9

CMF C16 H15 F2 N3 Si



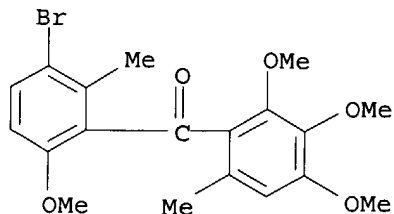
RN 451486-32-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-[(4-chlorophenyl)methyl]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

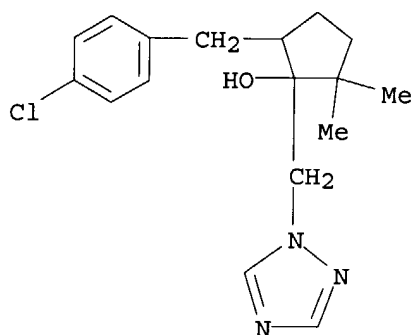
CMF C19 H21 Br O5



CM 2

CRN 125116-23-6

CMF C17 H22 Cl N3 O



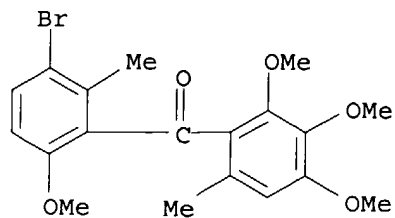
RN 451486-33-2 HCAPLUS

CN 1H-1,2,4-Triazole-1-propanenitrile, .alpha.-butyl-.alpha.-(4-chlorophenyl)-
 , mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-
 methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

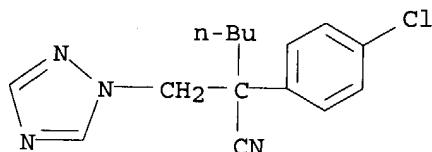
CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

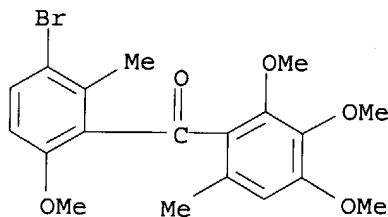
CRN 88671-89-0
CMF C15 H17 Cl N4



RN 451486-34-3 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

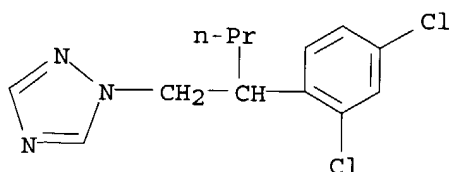
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

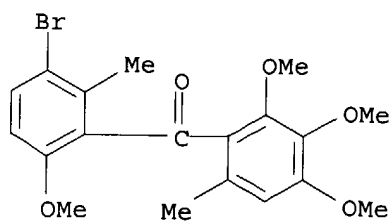
CRN 66246-88-6
CMF C13 H15 Cl2 N3



RN 451486-35-4 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

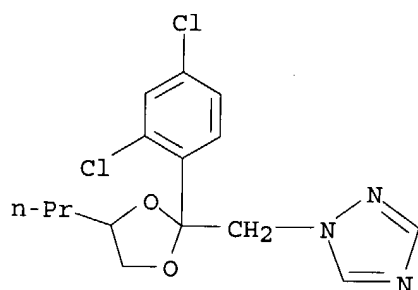
CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

CRN 60207-90-1

CMF C15 H17 Cl2 N3 O2



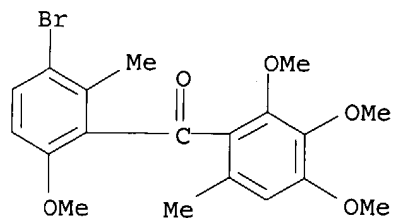
RN 451486-36-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-1H-imidazole-1-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

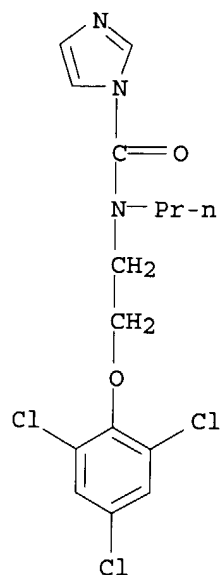
CMF C19 H21 Br O5



CM 2

CRN 67747-09-5

CMF C15 H16 Cl3 N3 O2



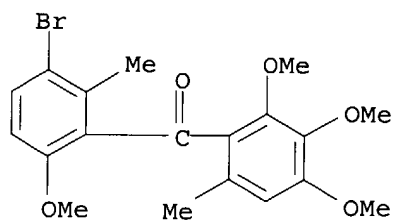
RN 451486-37-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.-[2-(4-chlorophenyl)ethyl]-.alpha.-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

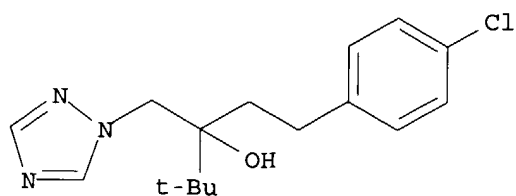
CMF C19 H21 Br O5



CM 2

CRN 107534-96-3

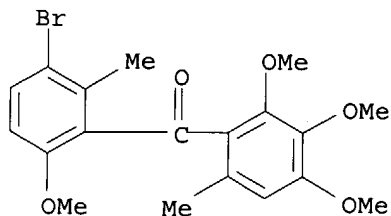
CMF C16 H22 Cl N3 O



RN 451486-38-7 HCAPLUS
 CN 2-Butanone, 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

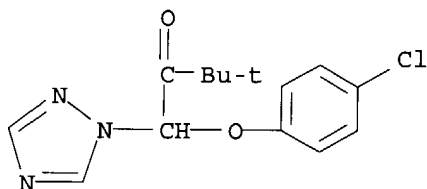
CM 1

CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

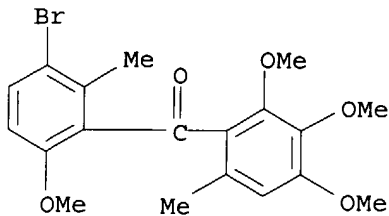
CRN 43121-43-3
 CMF C14 H16 Cl N3 O2



RN 451486-39-8 HCAPLUS
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .beta.-(4-chlorophenoxy)-.alpha.-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

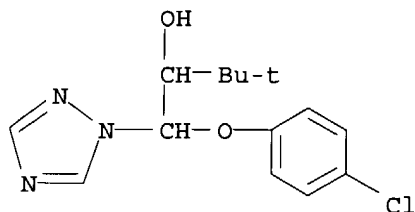
CM 1

CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

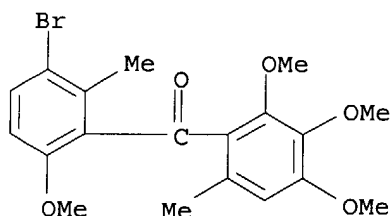
CRN 55219-65-3
CMF C14 H18 Cl N3 O2



RN 451486-40-1 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.-(2-chlorophenyl)-.alpha.-(4-chlorophenyl)-5-pyrimidinemethanol (9CI) (CA INDEX NAME)

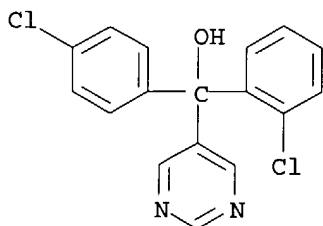
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

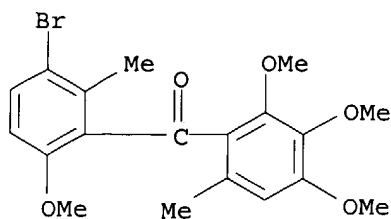
CRN 60168-88-9
CMF C17 H12 Cl2 N2 O



RN 451486-41-2 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-(2R,6S)-4-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethylmorpholine (9CI) (CA INDEX NAME)

CM 1

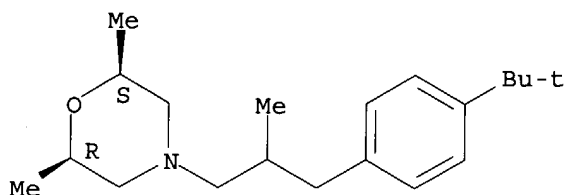
CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

CRN 67564-91-4
CMF C20 H33 N O

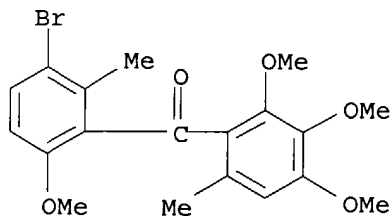
Relative stereochemistry.



RN 451486-42-3 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]piperidine (9CI) (CA INDEX NAME)

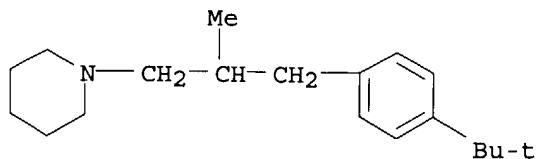
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

CRN 67306-00-7
CMF C19 H31 N



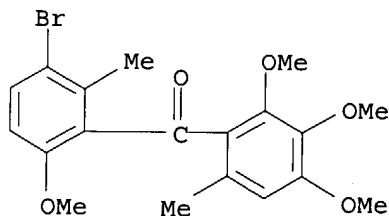
RN 451486-43-4 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 8-(1,1-dimethylethyl)-N-ethyl-N-propyl-1,4-dioxaspiro[4.5]decane-2-methanamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

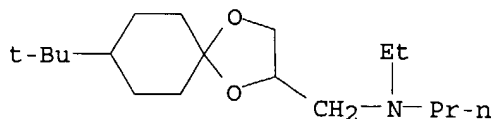
CMF C19 H21 Br O5



CM 2

CRN 118134-30-8

CMF C18 H35 N O2



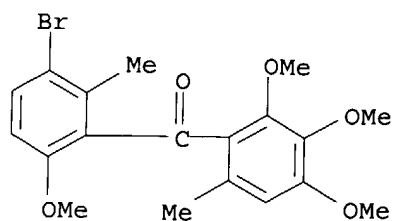
RN 451486-44-5 HCAPLUS

CN Formamide, N,N'-[1,4-piperazinediylbis(2,2,2-trichloroethylidene)]bis-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

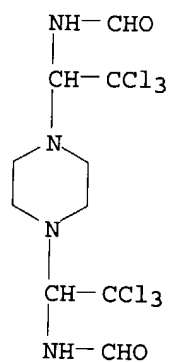
CMF C19 H21 Br O5



CM 2

CRN 26644-46-2

CMF C10 H14 Cl6 N4 O2



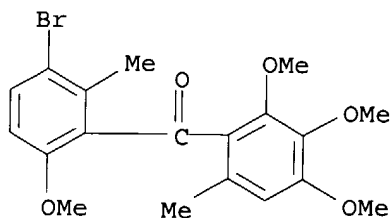
RN 451486-45-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.-(4-chlorophenyl)-.alpha.-(1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

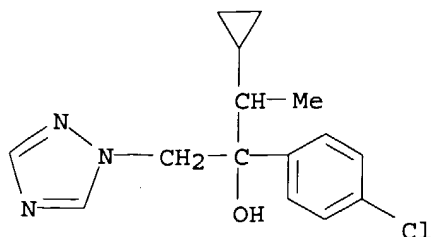
CMF C19 H21 Br O5



CM 2

CRN 94361-06-5

CMF C15 H18 Cl N3 O



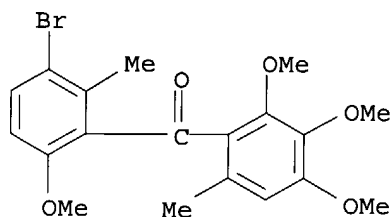
RN 451486-46-7 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[(2-methylphenoxy)methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

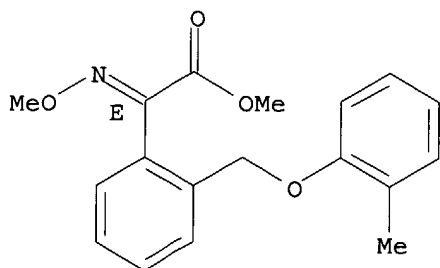


CM 2

CRN 143390-89-0

CMF C18 H19 N O4

Double bond geometry as shown.



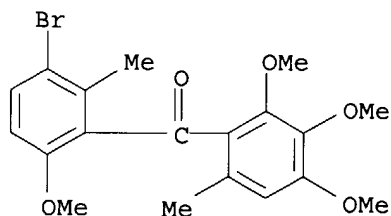
RN 451486-47-8 HCAPLUS

CN Cyclopropanecarboxamide, 2,2-dichloro-N-[1-(4-chlorophenyl)ethyl]-1-ethyl-3-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

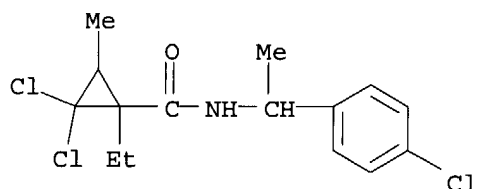
Searched by Noble Jarrell

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

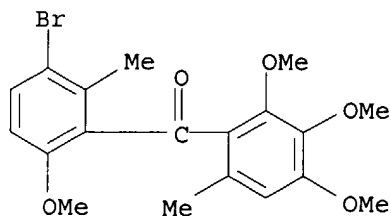
CRN 104030-54-8
CMF C15 H18 Cl3 N O



RN 451486-48-9 HCAPLUS
CN 2 (3H)-Benzothiazolone, 4-chloro-3-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

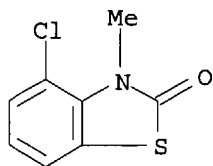
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

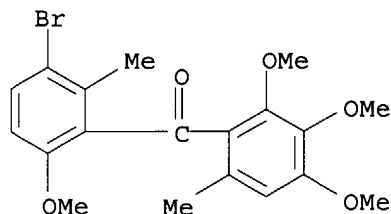
CRN 63755-05-5
CMF C8 H6 Cl N O S



RN 451486-49-0 HCAPLUS
 CN Butanamide, 2-cyano-N-[(1R)-1-(2,4-dichlorophenyl)ethyl]-3,3-dimethyl-,
 mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
 methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

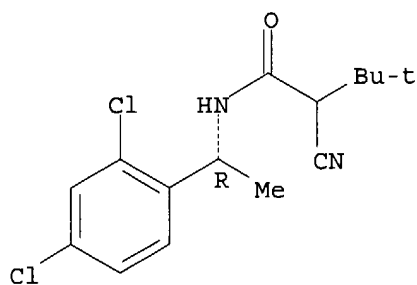
CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

CRN 139920-32-4
 CMF C15 H18 Cl2 N2 O

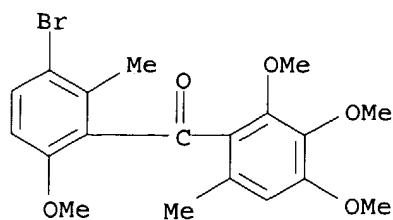
Absolute stereochemistry.



RN 451486-50-3 HCAPLUS
 CN 4H-Pyrrolo[3,2,1-ij]quinolin-4-one, 1,2,5,6-tetrahydro-, mixt. with
 (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
 methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

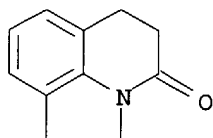
CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

CRN 57369-32-1

CMF C11 H11 N O



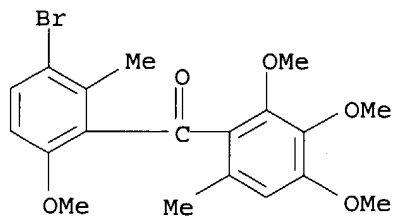
RN 451486-51-4 HCAPLUS

CN 1(3H)-Isobenzofuranone, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

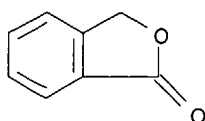
CMF C19 H21 Br O5



CM 2

CRN 87-41-2

CMF C8 H6 O2



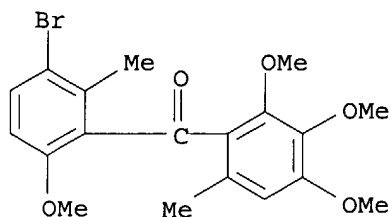
RN 451486-52-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-methyl-1,2,4-triazolo[3,4-b]benzothiazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

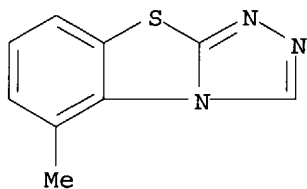
CMF C19 H21 Br O5



CM 2

CRN 41814-78-2

CMF C9 H7 N3 S



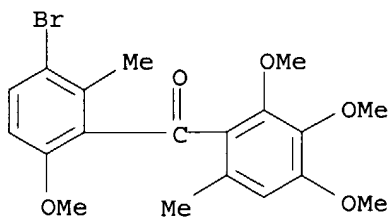
RN 451486-53-6 HCAPLUS

CN Propanamide, N-(1-cyano-1,2-dimethylpropyl)-2-(2,4-dichlorophenoxy)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

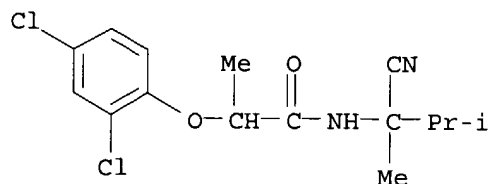
CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

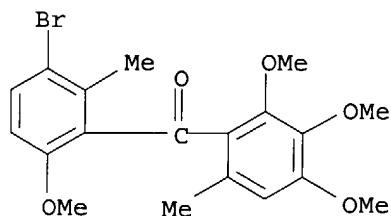
CRN 115852-48-7
CMF C15 H18 Cl2 N2 O2



RN 451486-54-7 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-6-(2-chloro-6-fluorophenyl)-N-(2,2,2-trifluoroethyl) [1,2,4]triazolo[1,5-a]pyrimidin-7-amine (9CI) (CA INDEX NAME)

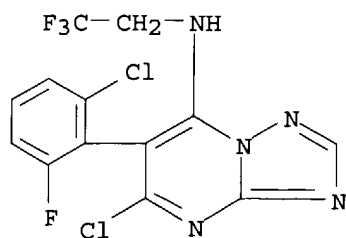
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

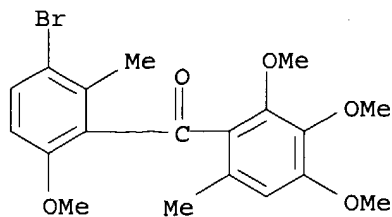
CRN 214633-87-1
CMF C13 H7 Cl2 F4 N5



RN 451486-55-8 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-N-(2,2,2-trifluoro-1-methylethyl)-6-(2,4,6-trifluorophenyl) [1,2,4]triazolo[1,5-a]pyrimidin-7-amine (9CI) (CA INDEX NAME)

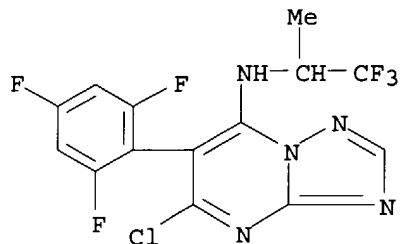
CM 1

CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

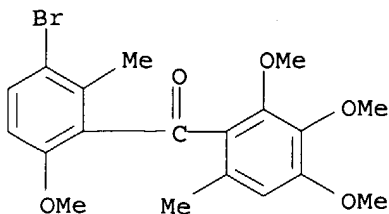
CRN 214633-94-0
CMF C14 H8 Cl F6 N5



RN 451486-56-9 HCAPLUS
CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamdithioato(2-)-
.kappa.S,.kappa.S']-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-
trimethoxy-6-methylphenyl)methanone, 4-[3-(4-chlorophenyl)-3-(3,4-
dimethoxyphenyl)-1-oxo-2-propenyl]morpholine and [[2-
[(dithiocarboxy)amino]ethyl]carbamdithioato(2-)-.kappa.S,.kappa.S']zinc
(9CI) (CA INDEX NAME)

CM 1

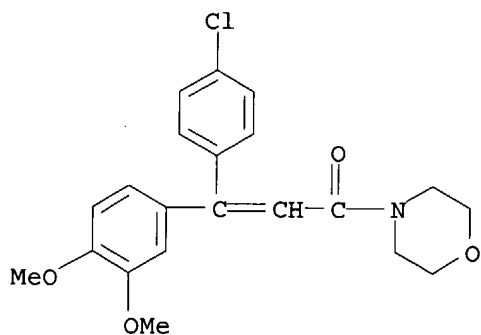
CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

CRN 110488-70-5

CMF C21 H22 Cl N O4

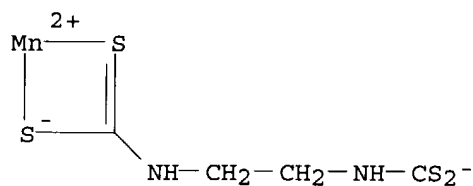


CM 3

CRN 12427-38-2

CMF C4 H6 Mn N2 S4

CCI CCS

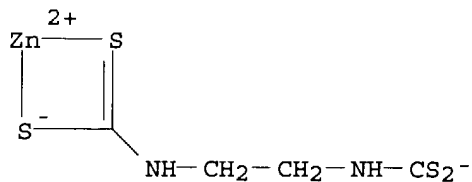


CM 4

CRN 12122-67-7

CMF C4 H6 N2 S4 Zn

CCI CCS

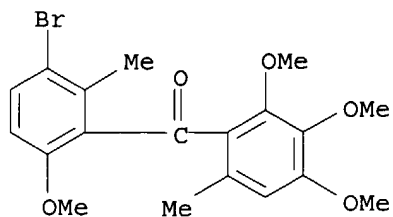


RN 451486-57-0 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[(2-methylphenoxy)methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and rel-1-[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

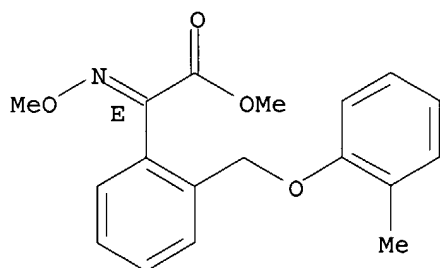
CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

CRN 143390-89-0
CMF C18 H19 N O4

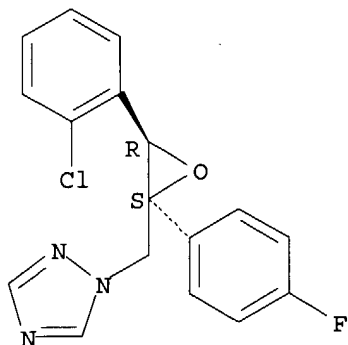
Double bond geometry as shown.



CM 3

CRN 133855-98-8
CMF C17 H13 Cl F N3 O

Relative stereochemistry.

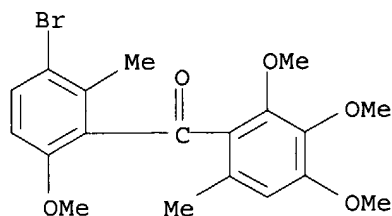


RN 451486-58-1 HCAPLUS
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with copper chloride oxide hydrate (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

CRN 1332-40-7

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

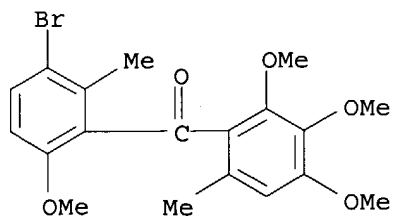
RN 451486-59-2 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole and (2R,6S)-rel-4-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethylmorpholine (9CI)
(CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

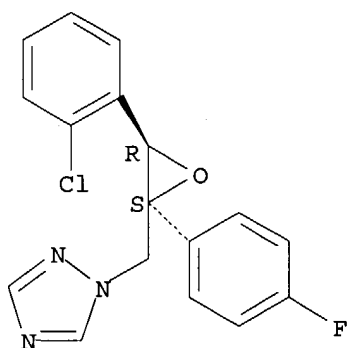


CM 2

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.

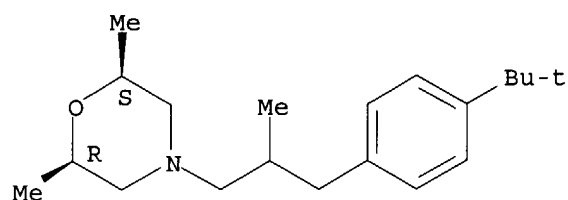


CM 3

CRN 67564-91-4

CMF C20 H33 N O

Relative stereochemistry.



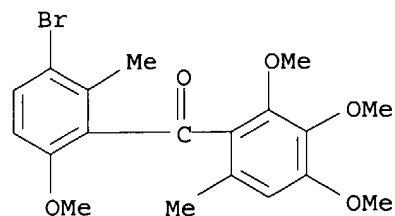
RN 451486-60-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5,7-dichloro-4-(4-fluorophenoxy)quinoline (9CI)
(CA INDEX NAME)

CM 1

CRN 220899-03-6

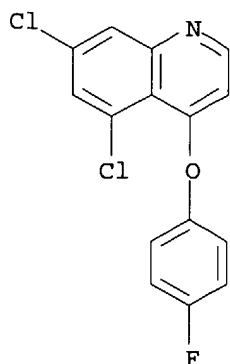
CMF C19 H21 Br O5



CM 2

CRN 124495-18-7

CMF C15 H8 Cl2 F N O



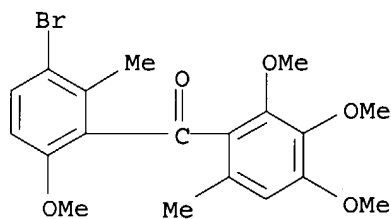
RN 451486-61-6 HCAPLUS

CN 1,2,3-Benzothiadiazole-7-carbothioic acid, S-methyl ester, mixt. with
(3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

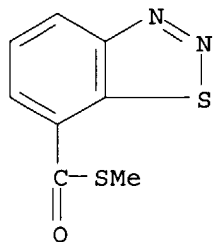
CMF C19 H21 Br O5



CM 2

CRN 135158-54-2

CMF C8 H6 N2 O S2



L31 ANSWER 10 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:615338 HCAPLUS

DN 137:151318

ED Entered STN: 16 Aug 2002

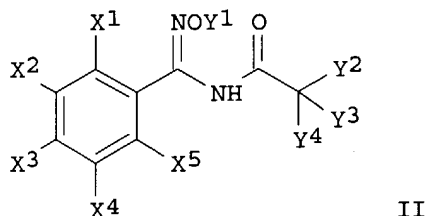
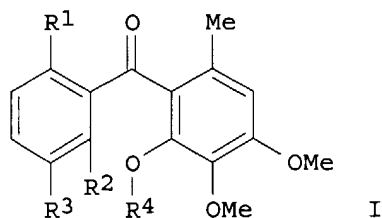
TI Synergistic fungicidal compositions containing a benzophenone and an oxime

ether derivative
 IN Eicken, Karl; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden, Egon
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N035-04
 ICS A01N037-52; A01N043-10; A01N043-56; A01N043-36; A01N043-50;
 A01N043-78; A01N043-08; A01N043-58; A01N043-54
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002062140	A1	20020815	WO 2002-EP414	20020117 <--
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1365650	A1	20031203	EP 2002-729924	20020117 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	BR 2002006487	A	20040217	BR 2002-6487	20020117 <--
	JP 2004521896	T2	20040722	JP 2002-562152	20020117 <--
	US 2004054000	A1	20040318	US 2003-466332	20030714 <--
PRAI	DE 2001-10102281	A	20010118	<--	
	WO 2002-EP414	W	20020117	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002062140	ICM	A01N035-04
	ICS	A01N037-52; A01N043-10; A01N043-56; A01N043-36; A01N043-50; A01N043-78; A01N043-08; A01N043-58; A01N043-54
JP 2004521896	FTERM	4H011/AA01; 4H011/BA01; 4H011/BA06; 4H011/BB05; 4H011/BB06; 4H011/BC03; 4H011/BC05; 4H011/BC06; 4H011/BC07; 4H011/DA02; 4H011/DA15; 4H011/DA16; 4H011/DC05; 4H011/DC06; 4H011/DD03; 4H011/DF04
US 2004054000	ECLA	A01N035/04
OS	MARPAT	137:151318
GI		



AB The invention relates to synergistic fungicidal compns. comprising benzophenones I (R1 = Cl, Me, MeO, AcO, pivaloyloxy or OH; R2 = Cl or Me; R3 = H, halo or Me; R4 = C1-6 alkyl or benzyl, whereby the Ph part of the benzyl group can bear a halo or Me substituent) and oxime ether derivs. II [X1 = C1-4 haloalkyl or haloalkoxy; X1-5 = H, halo, C1-4 alkyl, haloalkyl, alkoxy or haloalkoxy; Y1 = (un)substituted C1-4 alkyl, C2-6 alkenyl, alkynyl or C1-4 alkyl(C3-7)cycloalkyl; Y2 = (un)substituted Ph or heterocyclyl; Y3, Y4 = H, C1-4 alkyl, alkoxy, alkylthio, alkylamino, haloalkyl or haloalkoxy].

ST synergism fungicide benzophenone oxime ether derivs

IT Fungicides

(synergistic, agrochem.; compns. containing a benzophenone and an oxime ether derivative)

IT **445249-42-3 445249-43-4**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal composition)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (2) Basf Ag; DE 19722223 A 1998 HCAPLUS
- (3) Nippon Soda Co; EP 0919126 A 1999 HCAPLUS
- (4) Novartis-Erfindungen Verwal Tungsgesellschaft M B H; WO 0072678 A 2000 HCAPLUS

IT **445249-42-3 445249-43-4**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal composition)

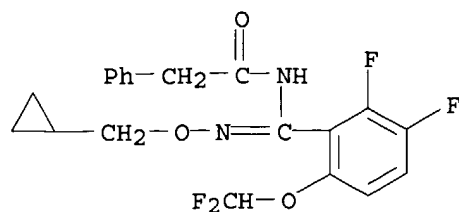
RN 445249-42-3 HCAPLUS

CN Benzeneacetamide, N-[[[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9

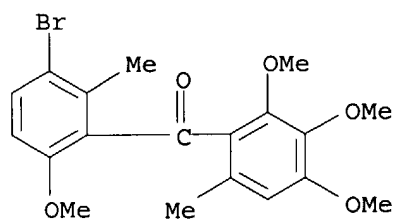
CMF C20 H18 F4 N2 O3



CM 2

CRN 220899-03-6

CMF C19 H21 Br O5



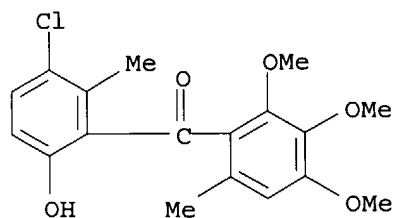
RN 445249-43-4 HCAPLUS

CN Benzeneacetamide, N-[[[(cyclopropylmethoxy)amino] [6-(difluoromethoxy)-2,3-difluorophenyl]methylene]-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7

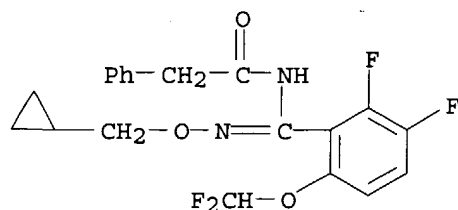
CMF C18 H19 Cl O5



CM 2

CRN 221201-92-9

CMF C20 H18 F4 N2 O3



L31 ANSWER 11 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:555275 HCAPLUS
 DN 137:105162
 ED Entered STN: 26 Jul 2002
 TI Synergistic fungicidal mixtures comprising benzophenone and imidazole derivatives
 IN Ptock, Arne; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden, Egon
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N043-90
 ICS A01N035-02; A01N035-06; A01N035-04; A01N043-90; A01N037-02; A01N035-06; A01N035-04
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002056689	A1	20020725	WO 2002-EP413	20020117 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1365654	A1	20031203	EP 2002-710801	20020117 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004523516	T2	20040805	JP 2002-557208	20020117 <--
US 2004053984	A1	20040318	US 2003-466331	20030714 <--
PRAI DE 2001-10102282	A	20010118	<--	
WO 2002-EP413	W	20020117	<--	

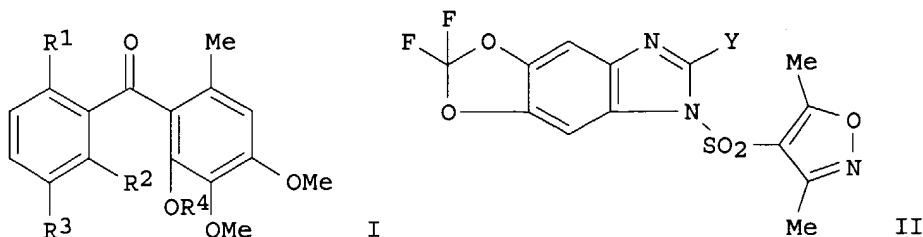
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002056689	ICM	A01N043-90
	ICS	A01N035-02; A01N035-06; A01N035-04; A01N043-90; A01N037-02; A01N035-06; A01N035-04
JP 2004523516	FTERM	4H006/AA03; 4H006/AB03; 4H011/AA01; 4H011/BA01; 4H011/BA06; 4H011/BB04; 4H011/BB06; 4H011/BB09; 4H011/DD03; 4H011/DD04

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US 2004053984 ECLA A01N043/90
OS MARPAT 137:105162
GI

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AB The title mixts. contain (a) benzophenones I, where R1 = chloro, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R2 = chloro or methyl; R3 = H, halogen or Me and R4 = C1-C6 alkyl or benzyl, where the Ph moiety of the benzyl group can be halo- or methyl-substituted; and (b) imidazole derivs. II, where Y = bromine or chlorine.

ST synergism fungicide benzophenone imidazole derivs

IT Fungicides

(synergistic, agrochem.; mixts. comprising benzophenone and imidazole derivs.)

IT 443102-06-5 443102-09-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture)

IT 188026-76-8D, mixts. with benzophenones 188027-78-3D, mixts. with benzophenones

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixts.)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
- (2) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (3) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS
- (4) American Cyanamid Co; EP 0967196 A 1999 HCAPLUS
- (5) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (6) Bayer Ag; DE 19716256 A 1998 HCAPLUS
- (7) Tiemann, R; WO 9706171 A 1997 HCAPLUS

IT 443102-06-5 443102-09-8

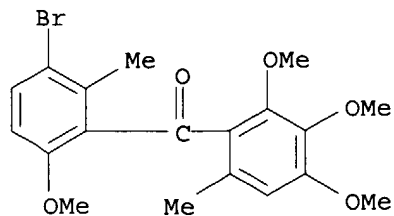
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture)

RN 443102-06-5 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 6-bromo-5-[(3,5-dimethyl-4-isoxazolyl)sulfonyl]-2,2-difluoro-5H-1,3-dioxolo[4,5-f]benzimidazole (9CI) (CA INDEX NAME)

CM 1

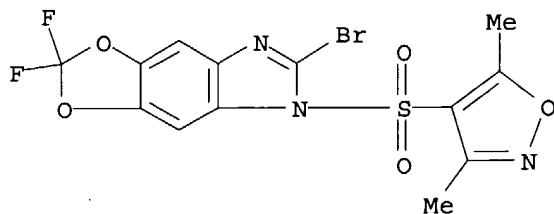
CRN 220899-03-6
CMF C19 H21 Br O5



CM 2

CRN 188026-76-8

CMF C13 H8 Br F2 N3 O5 S



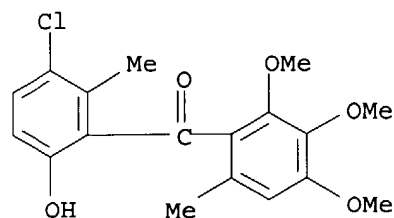
RN 443102-09-8 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 6-bromo-5-[(3,5-dimethyl-4-isoxazolyl)sulfonyl]-2,2-difluoro-5H-1,3-dioxolo[4,5-f]benzimidazole (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7

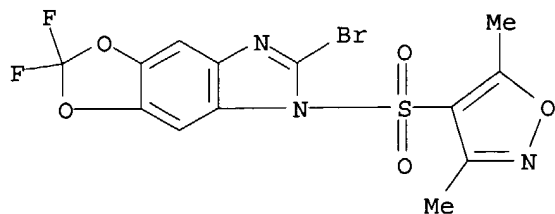
CMF C18 H19 Cl O5



CM 2

CRN 188026-76-8

CMF C13 H8 Br F2 N3 O5 S



L31 ANSWER 12 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:555274 HCAPLUS

DN 137:105161

ED Entered STN: 26 Jul 2002

TI Synergistic fungicidal mixtures of benzophenones and N-biphenylnicotinamides

IN Eicken, Karl; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden, Egon; Hampel, Manfred

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N043-40

ICS A01N043-40; A01N037-02; A01N035-06; A01N035-04

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002056688	A1	20020725	WO 2002-EP410	20020117 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1365652	A1	20031203	EP 2002-710800	20020117 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	EE 200300336	A	20031215	EE 2003-336	20020117 <--
	BR 2002006385	A	20040203	BR 2002-6385	20020117 <--
	JP 2004523515	T2	20040805	JP 2002-557207	20020117 <--
	US 2004077692	A1	20040422	US 2003-466165	20030714 <--
PRAI	DE 2001-10102311	A	20010118	<--	
	WO 2002-EP410	W	20020117	<--	

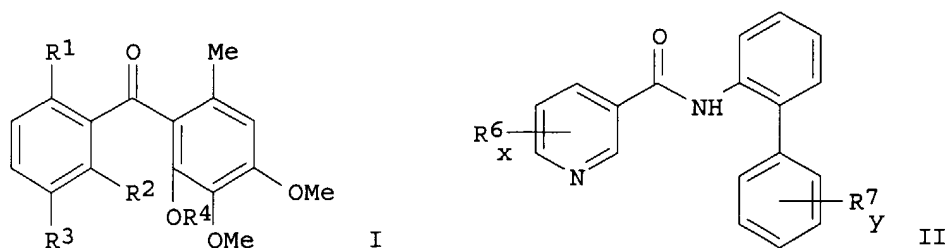
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002056688	ICM	A01N043-40
	ICS	A01N043-40; A01N037-02; A01N035-06; A01N035-04
JP 2004523515	FTERM	4H006/AA03; 4H006/AB03; 4H011/AA01; 4H011/AA03; 4H011/BA01; 4H011/BB05; 4H011/BB06; 4H011/BB09; 4H011/DD03; 4H011/DD04

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US 2004077692 ECLA A01N043/40
OS MARPAT 137:105161
GI

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AB The title mixts. contain (a) benzophenones I, wherein R¹ represents Cl, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R² represents Cl or Me; R³ represents H, halogen or Me; and R⁴ represents C₁-C₆ alkyl or benzyl, whereby the Ph part of the benzyl group may carry a halogen or Me substituent; and (b) N-biphenylnicotinamides II, wherein R⁶ and R⁷ represent halogen, nitro, cyano, alkyl, alkenyl, alkynyl, haloalkyl, halogenalkenyl, haloalkynyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl or alkylsulfonyl; x is 1, 2, 3 or 4; and y is 1, 2, 3, 4 or 5.

ST synergism fungicide benzophenone nicotinamide derivs
IT Fungicides

(synergistic, agrochem; mixts. of benzophenones and
N-biphenylnicotinamides)

IT 443102-04-3 443102-05-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
- (2) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
- (3) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS
- (4) American Cyanamid Co; EP 0967196 A 1999 HCAPLUS
- (5) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (6) Schelberger, K; WO 9931951 A 1999 HCAPLUS
- (7) Schelberger, K; WO 9931976 A 1999 HCAPLUS
- (8) Schelberger, K; WO 9931979 A 1999 HCAPLUS
- (9) Schelberger, K; WO 9931981 A 1999 HCAPLUS
- (10) Schelberger, K; WO 9931983 A 1999 HCAPLUS
- (11) Schelberger, K; WO 9931984 A 1999 HCAPLUS
- (12) Schelberger, K; WO 9931985 A 1999 HCAPLUS

IT 443102-04-3 443102-05-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture)

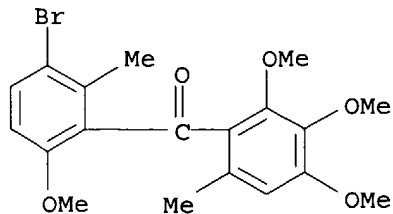
RN 443102-04-3 HCAPLUS

CN 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-, mixt.
with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-
methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

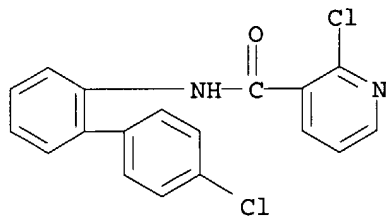
CMF C19 H21 Br O5



CM 2

CRN 188425-85-6

CMF C18 H12 Cl2 N2 O



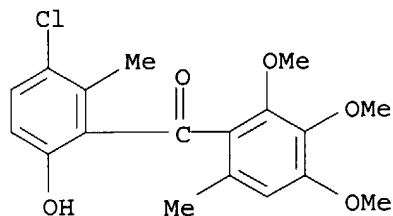
RN 443102-05-4 HCAPLUS

CN 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-, mixt.
with (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7

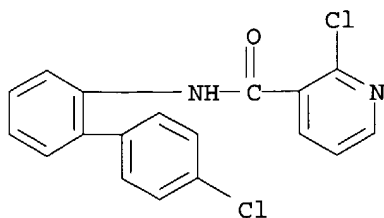
CMF C18 H19 Cl O5



CM 2

CRN 188425-85-6

CMF C18 H12 Cl2 N2 O



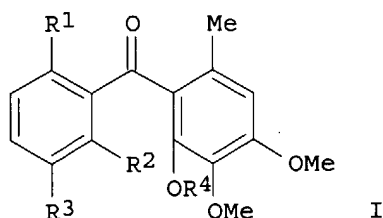
L31 ANSWER 13 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:555272 HCAPLUS
 DN 137:105160
 ED Entered STN: 26 Jul 2002
 TI Synergistic fungicide mixtures
 IN Mueller, Bernd; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Leyendecker, Joachim; Haden, Egon
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 28 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N035-04
 ICS A01N047-24; A01N043-653
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002056686	A1	20020725	WO 2002-EP411	20020117 <--	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
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	EP 1353554	B1	20040630			
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
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	BR 2002006494	A	20040106	BR 2002-6494	20020117 <--	
	AT 270041	E	20040715	AT 2002-710012	20020117 <--	
	JP 2004521887	T2	20040722	JP 2002-557205	20020117 <--	
	BG 107964	A	20040227	BG 2003-107964	20030702 <--	
	US 2004077700	A1	20040422	US 2003-466168	20030714 <--	
PRAI	DE 2001-10102279	A	20010118	<--		
	DE 2001-10123734	A	20010515	<--		
	WO 2002-EP411	W	20020117	<--		

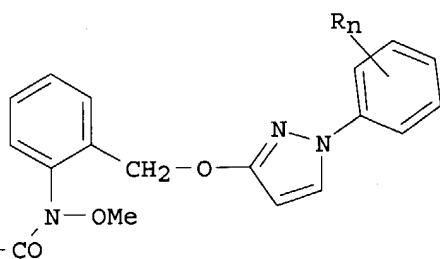
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002056686	ICM	A01N035-04
	ICS	A01N047-24; A01N043-653

JP 2004521887 FTERM 4H011/AA01; 4H011/AA03; 4H011/BA06; 4H011/BB05;
 4H011/BB09; 4H011/BB13 <--
 US 2004077700 ECLA A01N035/04; A01N047/24 <--
 OS MARPAT 137:105160
 GI



I



II

AB The title mixts. comprise a benzophenone I (R1 = Cl, Me, AcO, pivaloyloxy or OH; R2 = Cl or Ne; R3 = H, halo or Me; R4 = alkyl, benzyl, halobenzyl or methylbenzyl) a carbamate II (R = halo, alkyl or haloalkyl; n = 1 or 2) and an azole derivative, such as epoxyconazole, metconazole, propiconazole or tebuconazole.

ST synergism fungicide benzophenone carbamate azole derivs

IT Fungicides
 (synergistic, agrochem.; mixts. of benzophenone carbamate and azole derivative,)

IT 60207-90-1D, Propiconazole, mixts. with benzophenone ans carbamate derivs.
 107534-96-3D, Tebuconazole, mixts. with benzophenone ans carbamate derivs.
 125116-23-6D, Metconazole, mixts. with benzophenone ans carbamate derivs.
 133855-98-8D, mixts. with benzophenone ans carbamate derivs.
 178928-70-6D, mixts. with benzophenone ans carbamate derivs.

443102-41-8 443102-48-5 443102-54-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicide mixture)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (2) Leyendecker, J; WO 9740688 A 1997 HCAPLUS
- (3) Leyendecker, J; EP 0900021 A 1999 HCAPLUS
- (4) Novartis Erfind Verwalt Gmbh; WO 0076317 A 2000 HCAPLUS

IT **443102-41-8 443102-48-5 443102-54-3**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicide mixture)

RN 443102-41-8 HCAPLUS

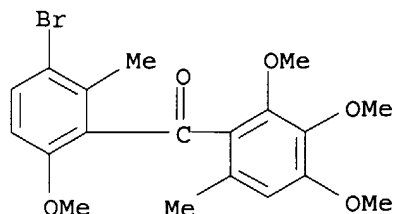
CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with
 (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and rel-1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-

fluorophenyl)oxiranyl)methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

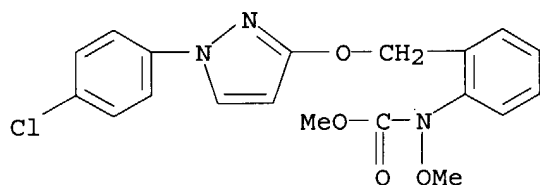
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CM 2

CRN 175013-18-0

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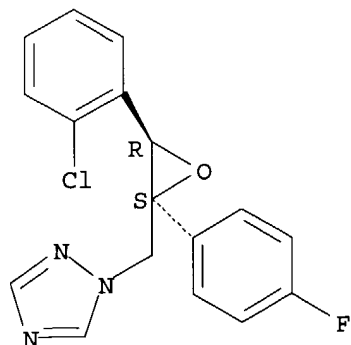


CM 3

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.



RN 443102-48-5 HCAPLUS

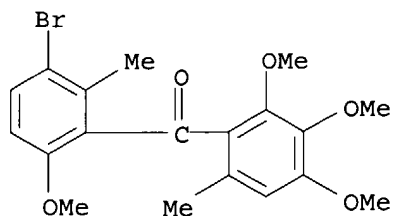
CN Carbamic acid, methoxy[2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and

rel-1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

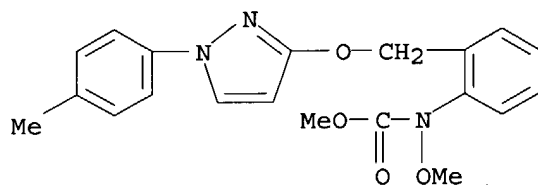
CMF C19 H21 Br O5



CM 2

CRN 175013-22-6

CMF C20 H21 N3 O4

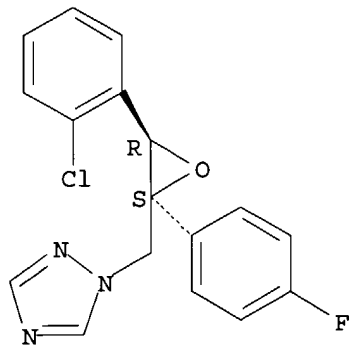


CM 3

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.



RN 443102-54-3 HCAPLUS

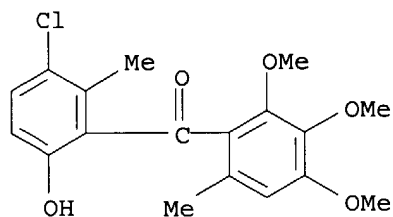
CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with

(3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone and rel-1-[[(2R,3S) -3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl)methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7

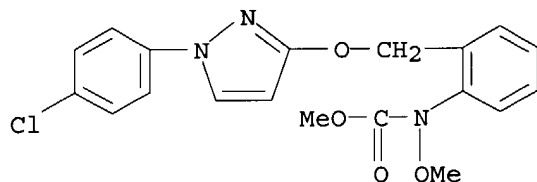
CMF C18 H19 Cl O5



CM 2

CRN 175013-18-0

CMF C19 H18 Cl N3 O4

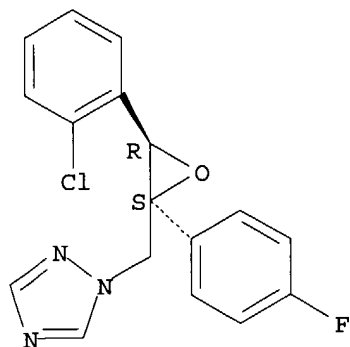


CM 3

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.

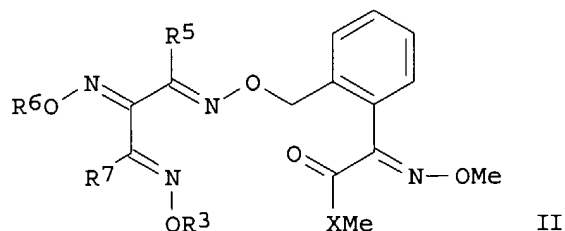
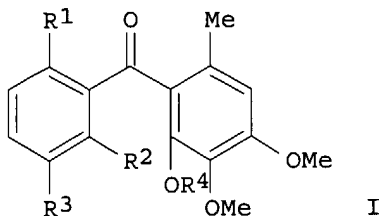


AN 2002:555271 HCAPLUS
 DN 137:105159
 ED Entered STN: 26 Jul 2002
 TI Synergistic fungicidal mixtures
 IN Grote, Thomas; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden, Egon
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N035-00
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002056685	A2	20020725	WO 2002-EP412	20020117 <--
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1353553	A2	20031022	EP 2002-703556	20020117 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2004521886	T2	20040722	JP 2002-557204	20020117 <--
	US 2004054011	A1	20040318	US 2003-466167	20030714 <--
PRAI	DE 2001-10117260	A	20010118	<--	
	WO 2002-EP412	W	20020117	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
WO 2002056685	ICM	A01N035-00	
JP 2004521886	FTERM	4H011/AA01; 4H011/BA06; 4H011/BB04; 4H011/BB05; 4H011/BC03; 4H011/DA16; 4H011/DF04	<--
US 2004054011	ECLA	A01N035/04; A01N037/50	<--
OS	MARPAT 137:105159		
GI			



AB The title mixts. contain (a) benzophenones I, where R1 = chloro, Me, methoxy, pivaloyloxy or hydroxy; R2 = chloro or methyl; R3 = H, halogen or Me and R4 = C1-C6 alkyl or benzyl, where the Ph moiety of the benzyl group may be halo- or methyl-substituted, and (b) oxime ethers II, where X = NH or O; R5, R7 = C1-C4 alkyl or cyclopropyl; R6, R8 = C1-C4 alkyl, C3-C4 alkenyl or cyclopropyl.

ST synergism fungicide benzophenones oxime ether

IT Fungicides
(synergistic, agrochem.; mixts. containing benzophenones and oxime ethers)

IT **443105-10-0 443105-16-6**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture)

IT **443105-10-0 443105-16-6**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal mixture)

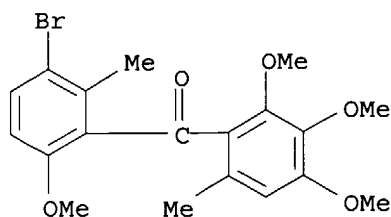
RN 443105-10-0 HCAPLUS

CN Benzeneacetamide, .alpha.-(methoxyimino)-2-[5-(methoxyimino)-4,6-dimethyl-2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-N-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

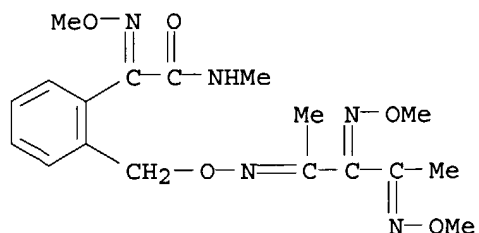
CMF C19 H21 Br O5



CM 2

CRN 189892-69-1

CMF C18 H25 N5 O5



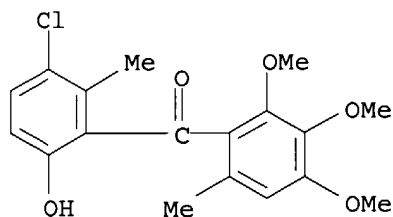
RN 443105-16-6 HCAPLUS

CN Benzeneacetamide, .alpha.-(methoxyimino)-2-[5-(methoxyimino)-4,6-dimethyl-2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-N-methyl-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7

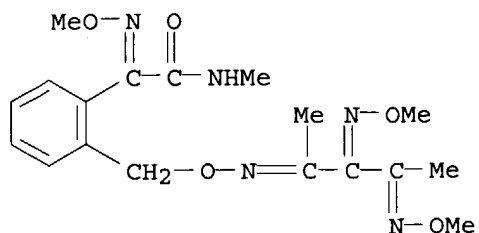
CMF C18 H19 Cl O5



CM 2

CRN 189892-69-1

CMF C18 H25 N5 O5



L31 ANSWER 15 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:797993 HCAPLUS

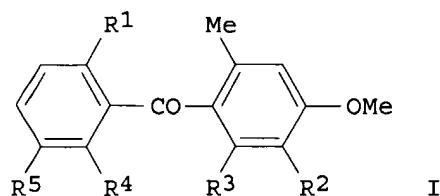
DN 135:314876

ED Entered STN: 02 Nov 2001
 TI Synergistic fungicidal compositions containing benzophenone derivatives
 and azoxystrobin
 IN Leadbitter, Neil
 PA Syngenta Participations A.-G., Switz.
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N043-54
 ICS A01N043-54; A01N037-02; A01N035-04
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001080643	A1	20011101	WO 2001-EP4624	20010424 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1278414	A1	20030129	EP 2001-940360	20010424 <--
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	JP 2003531155	T2	20031021	JP 2001-577752	20010424 <--
	AT 256393	E	20040115	AT 2001-940360	20010424 <--
	US 2003166669	A1	20030904	US 2003-258513	20030311 <--
PRAI	GB 2000-10198	A	20000426	<--	
	WO 2001-EP4624	W	20010424	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001080643	ICM	A01N043-54
	ICS	A01N043-54; A01N037-02; A01N035-04
US 2003166669	ECLA	A01N043/54
OS	MARPAT 135:314876	
GI		

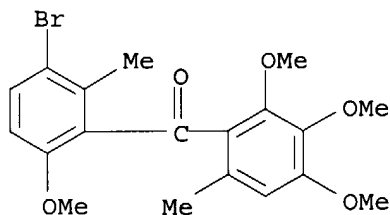


AB Synergistic fungicidal compns. for combating phytopathogenic diseases on crop plants comprise (a) a benzophenone of I (R1 = methoxy, Me, hydroxy, acetoxo, or pivaloyloxy; R2 = C1-C4 alkoxy or 2-halogenbenzyloxy; R3 = C1-C4 alkoxy; R4 = C1-C4 alkyl, halo, or trifluoromethyl; R5 = H, halo, C1-C4 alkoxy, trifluoromethyl, or nitro) in association with (b) azoxystrobin.

ST benzophenone deriv azoxystrobin mixt synergistic fungicide
IT Fungicides
(synergistic; synergistic fungicidal compns. containing benzophenone
derivs. and azoxystrobin)
IT 131860-33-8D, Azoxystrobin, mixts. with benzophenone derivs.
368872-60-0 368872-61-1 368872-62-2 368872-63-3
368872-64-4 368872-65-5 368872-66-6 368872-67-7 368872-68-8
368872-69-9 **368872-70-2** 368872-71-3 **368872-72-4**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal compns. containing)
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS
(2) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS
(3) American Cyanamid Co; EP 0933025 A 1999 HCAPLUS
(4) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
(5) Novartis Erfind Verwalt Gmbh; WO 0076317 A 2000 HCAPLUS
IT **368872-60-0 368872-70-2 368872-72-4**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal compns. containing)
RN 368872-60-0 HCAPLUS
CN Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.-
(methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with
(3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-
methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

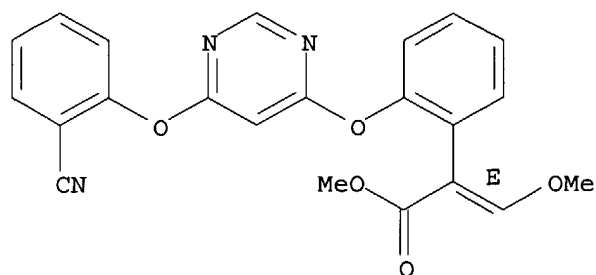
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CMF C19 H21 Br O5



CM 2

CRN 131860-33-8
CMF C22 H17 N3 O5

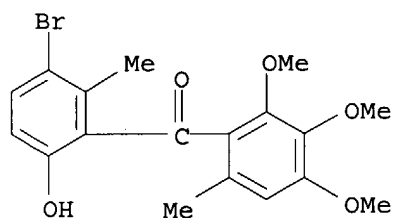
Double bond geometry as shown.



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CM 1

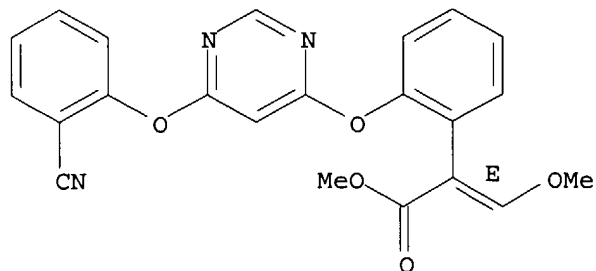
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CM 2

CRN 131860-33-8
 CMF C22 H17 N3 O5

Double bond geometry as shown.



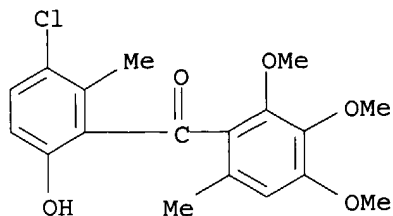
RN 368872-72-4 HCAPLUS
 CN Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.-(methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

Searched by Noble Jarrell

CM 1

CRN 252955-12-7

CMF C18 H19 Cl O5

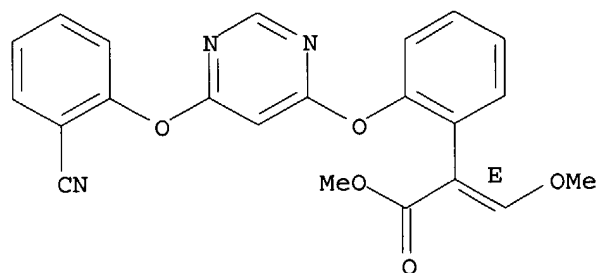


CM 2

CRN 131860-33-8

CMF C22 H17 N3 O5

Double bond geometry as shown.



L31 ANSWER 16 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:797992 HCAPLUS

DN 135:328375

ED Entered STN: 02 Nov 2001

TI Synergistic fungicidal mixtures of (E,E)-.alpha.-(Methoxyimino)-2-[[[1-(3-trifluoromethylphenyl)ethylidene]amino]oxy]methyl]benzenacetic acid Me ester with benzophenones

IN Leadbitter, Neil

PA Bayer Aktiengesellschaft, Germany

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N037-50

ICS A01N037-50; A01N037-02; A01N035-04

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001080640	A1	20011101	WO 2001-EP4228	20010412 <--
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Searched by Noble Jarrell

HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
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 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
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 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

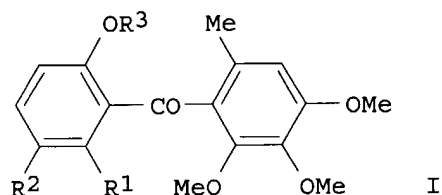
PRAI GB 2000-10200 A 20000426 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001080640	ICM	A01N037-50
	ICS	A01N037-50; A01N037-02; A01N035-04

OS MARPAT 135:328375

GI



AB Mixts. of (E,E)-.alpha.-(Methoxyimino)-2-[[[1-(3-trifluoromethylphenyl)ethylidene]amino]oxy]methyl]benzenacetic acid Me ester with benzophenones I (R1 = Cl, Me; R2 = H, Br, Cl, CF3; R3 = H, acetyl, pivaloyl) are used as synergistic fungicides for treatment of phytopathogenic diseases of crop plants.

ST benzenacetate deriv benzophenone mixt synergistic fungicide

IT Fungicides
 (synergistic; synergistic fungicidal mixts. of {(E,E)-.alpha.-(Methoxyimino)-2-[[[1-(phenyl)ethylidene]amino]oxy]methyl]benzenacetic } acid Me ester with benzophenones)

IT 141517-21-7D, mixts. with benzophenones **369374-47-0**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal composition containing)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0967196 A 1999 HCAPLUS
- (2) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (3) Ciba Geigy Ag; EP 0460575 A 1991 HCAPLUS
- (4) Novartis Erfind Verwalt Gmbh; WO 0072677 A 2000 HCAPLUS
- (5) Novartis Erfind Verwalt Gmbh; WO 0072678 A 2000 HCAPLUS

IT **369374-47-0**

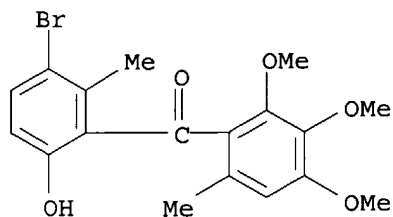
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal composition containing)

RN 369374-47-0 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

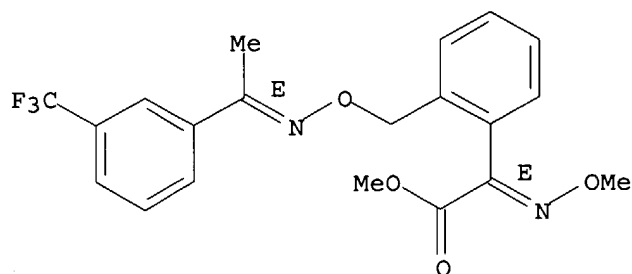
CRN 252955-10-5
CMF C18 H19 Br O5



CM 2

CRN 141517-21-7
CMF C20 H19 F3 N2 O4

Double bond geometry as shown.



L31 ANSWER 17 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:635833 HCAPLUS
DN 135:191652
ED Entered STN: 31 Aug 2001
TI Synergistic fungicidal mixtures against downy mildew containing
benzophenone and valinamide derivatives
IN Sieverding, Ewald; Reichert, Gunter
PA Basf Aktiengesellschaft, Germany
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A01N035-04
ICS A01N035-04; A01N047-12
CC 5-2 (Agrochemical Bioregulators)
FAN.CNT 1

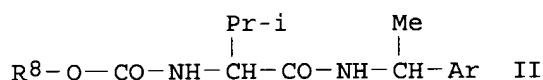
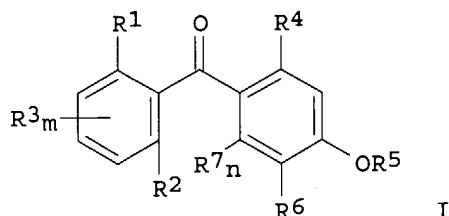
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001062083	A2	20010830	WO 2001-EP1719	20010216 <--
	WO 2001062083	A3	20020627		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,				

ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002065313 A1 20020530 US 2001-782095 20010213 <--
 US 6696497 B2 20040224
 NZ 520607 A 20040625 NZ 2001-520607 20010216 <--
 PRAI US 2000-184277P P 20000223 <--
 WO 2001-EP1719 W 20010216 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001062083	ICM	A01N035-04
	ICS	A01N035-04; A01N047-12
US 2002065313	ECLA	A01N047/12
OS MARPAT 135:191652		
GI		



- AB Synergistic fungicidal compns. comprising (a) at least one benzophenone of I (R1 = halo, (un)substituted alkyl, alkanoyloxy, alkoxy, hydroxy; R2 = halo, (un)substituted alkyl; R3 = halo, (un)substituted alkyl, alkoxy, nitro; R4 = halo, cyano, carboxy, hydroxy, nitro, (un)substituted alkyl, alkoxy, alkenyl, alkylthio, alkylsulphinyl, alkylsulfonyl, amino; R5 = (un)substituted alkyl; R6 = halo, nitro, (un)substituted alkyl, alkoxy, alkenyloxy, alkynyloxy, alkylthio, cycloalkyl, cycloalkyloxy, aryloxy; R7 = halo, (un)substituted alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, cycloalkyl, cycloalkoxy; m = 0, 1-3; n = 0, 1), and (b) at least one valinamide II (Ar = Ph, naphthyl, benzthiazolyl, benzimidazolyl, benzoxazoyland; R8 = C1-C6alkyl) are effective for controlling phytopathogenic fungi, such as downy mildew, at a locus.
- ST fungicide synergistic benzophenone valinamide deriv downy mildew
- IT Peronosporaceae
 (synergistic fungicidal mixts. against downy mildew containing benzophenone and valinamide derivs.)
- IT Fungicides
 (synergistic; synergistic fungicidal mixts. against downy mildew containing benzophenone and valinamide derivs.)
- IT 119-61-9D, benzophenone, derivs., mixts. with valinamide derivs.
 13474-14-1D, Valinamide, derivs., mixts. with benzophenone derivs.
 140923-17-7D, Iprovalicarb, mixts. with benzophenone derivs.
 161011-89-8D, mixts. with benzophenone derivs. 183725-88-4D, mixts. with

valinamide derivs. 183726-56-9D, mixts. with valinamide derivs.
 183726-77-4D, mixts. with valinamide derivs. 220899-03-6D,
 mixts. with valinamide derivs. 221051-20-3D, mixts. with valinamide
 derivs. 345205-72-3D, mixts. with benzophenone derivs.

357278-34-3 357278-36-5 357278-38-7

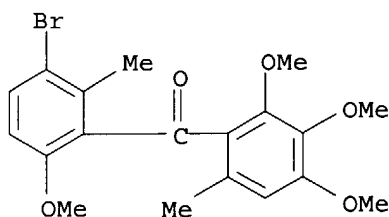
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal compns. against downy mildew containing)

IT 220899-03-6D, mixts. with valinamide derivs. 357278-34-3
 357278-36-5 357278-38-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal compns. against downy mildew containing)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



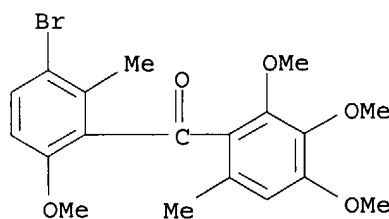
RN 357278-34-3 HCAPLUS

CN Carbamic acid, [(1S)-2-methyl-1-[[[1-(4-methylphenyl)ethyl]amino]carbonyl]propyl]-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

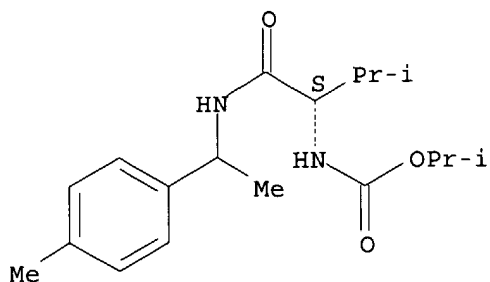


CM 2

CRN 140923-17-7

CMF C18 H28 N2 O3

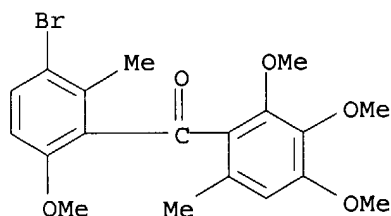
Absolute stereochemistry.



RN 357278-36-5 HCAPLUS
 CN Carbamic acid, [2-methyl-1-[[[1-(2-naphthalenyl)ethyl]amino]carbonyl]propyl]-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

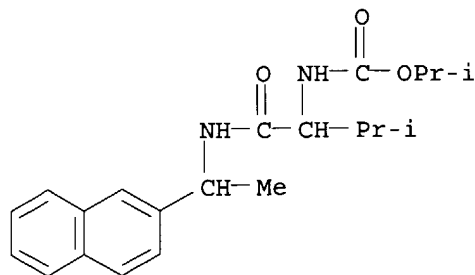
CM 1

CRN 220899-03-6
 CMF C19 H21 Br O5



CM 2

CRN 161011-89-8
 CMF C21 H28 N2 O3

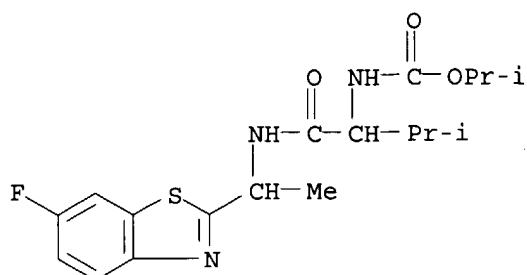


RN 357278-38-7 HCAPLUS
 CN Carbamic acid, [1-[[[1-(6-fluoro-2-benzothiazolyl)ethyl]amino]carbonyl]-2-methylpropyl]-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 345205-72-3

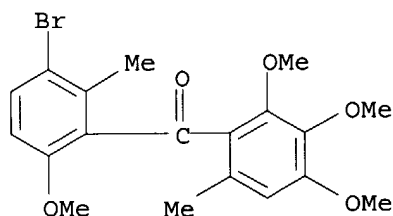
CMF C18 H24 F N3 O3 S



CM 2

CRN 220899-03-6

CMF C19 H21 Br O5



L31 ANSWER 18 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:526037 HCAPLUS

DN 135:107143

ED Entered STN: 20 Jul 2001

TI A process for the preparation of substituted benzophenones

IN Kameswaran, Venkataraman

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07C045-46

ICS C07C045-00; C07C205-45; C07C049-84; C07B041-06; C07D295-18

CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051440	A1	20010719	WO 2001-EP47	20010104 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

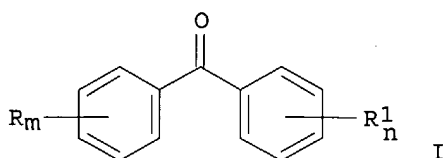
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2001031753 A1 20011018 US 2001-758809 20010111 <--
PRAI US 2000-175979P P 20000113 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001051440	ICM	C07C045-46
	ICS	C07C045-00; C07C205-45; C07C049-84; C07B041-06; C07D295-18

OS CASREACT 135:107143; MARPAT 135:107143
GI



AB Preparation of the title compds. I [m, n = 0-5; R = halo, alkyl, haloalkyl, etc.; R1 = alkyl, alkoxy, alkoxyalkyl, NR5R6] involved acylation of substituted benzenes in the presence of graphite and FeCl3. E.g., a slurry of 3-bromo-6-methoxy-2-methylbenzoic acid in 1,2-dichloroethane is treated with oxalyl chloride at room temperature over a 15 min period, heated

to

700.degree. C for 2 h, cooled to room temperature, treated with 3,4,5-trimethoxytoluene, anhydrous FeCl3, and graphite to give 3'-bromo-2,3,4,6'-tetramethoxy-2',6-dimethylbenzophenone (71.7% yield).

ST benzophenone prepn

IT 7705-08-0, Iron trichloride, uses 7782-42-5, Graphite, uses

RL: CAT (Catalyst use); USES (Uses)

(preparation of substituted benzophenones)

IT 97726-03-9P 116412-83-0P 128566-22-3P 162052-60-0P

220899-03-6P 349559-65-5P 349559-66-6P 349559-67-7P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

(Preparation)

(preparation of substituted benzophenones)

IT 91-16-7, Veratrole 122-01-0, 4-Chlorobenzoyl chloride 122-04-3,

4-Nitrobenzoyl chloride 618-32-6, Benzoyl bromide 831-50-5 5216-25-1

5396-38-3, 4-tert-Butylanisole 6443-69-2 7073-36-1 18063-02-0

220901-25-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of substituted benzophenones)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Co; EP 0854128 A 1998 HCAPLUS

(2) Goendes, G; 1996 HCAPLUS

(3) Goendes, G; J PHYS CHEM SOLIDS, PROCEEDINGS OF THE 8TH INTERNATIONAL SYMPOSIUM ON INTERCALATION COMPOUNDS 1996, V57, P855 HCAPLUS

(4) Khadilkar; TETRAHEDRON LETT 1997, V38(9), P1641 HCAPLUS

(5) Kodomari; CHEM COMMUN (CAMBRIDGE) 1997, 16, P1567 HCAPLUS

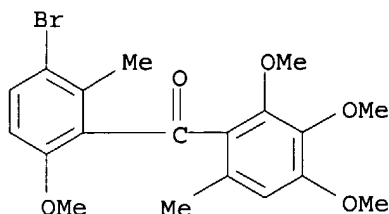
IT 220899-03-6P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

(Preparation)

(preparation of substituted benzophenones)

RN 220899-03-6 HCAPLUS
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



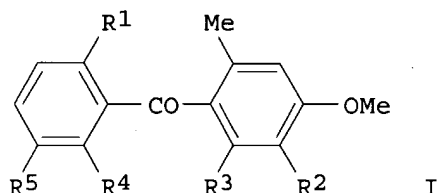
L31 ANSWER 19 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:900389 HCAPLUS
 DN 134:38252
 ED Entered STN: 22 Dec 2000
 TI Synergistic fungicidal combinations of benzophenones with strobilurins, cyanoimidazoles, and carbonic acid amides
 IN Dalton, Ian Paul
 PA Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N035-04
 ICS A01N035-04; A01N047-24; A01N047-12; A01N043-88; A01N043-653; A01N043-50; A01N043-40; A01N037-24; A01N037-20
 CC 5-2 (Agrochemical Bioregulators)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000076317	A1	20001221	WO 2000-EP5433	20000613 <--
W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
EP 1185173	A1	20020313	EP 2000-951283	20000613 <--
EP 1185173	B1	20030528		
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO	
BR 2000011615	A	20020423	BR 2000-11615	20000613 <--
JP 2003501448	T2	20030114	JP 2001-502673	20000613 <--
AT 241268	E	20030615	AT 2000-951283	20000613 <--
PT 1185173	T	20031031	PT 2000-951283	20000613 <--
ES 2200905	T3	20040316	ES 2000-951283	20000613 <--
US 2002107246	A1	20020808	US 2001-997607	20011129 <--
US 6689776	B2	20040210		
PRAI GB 1999-13787	A	19990614	<--	
GB 1999-13789	A	19990614	<--	
GB 1999-13792	A	19990614	<--	
GB 1999-13794	A	19990614	<--	

GB 1999-13796	A	19990614	<--
GB 1999-13798	A	19990614	<--
GB 1999-13803	A	19990614	<--
GB 1999-13805	A	19990614	<--
GB 1999-13807	A	19990614	<--
GB 1999-13808	A	19990614	<--
GB 1999-13810	A	19990614	<--
GB 1999-13812	A	19990614	<--
GB 1999-13813	A	19990614	<--
GB 1999-13814	A	19990614	<--
GB 1999-13816	A	19990614	<--
GB 1999-13817	A	19990614	<--
GB 1999-13818	A	19990614	<--
GB 1999-13820	A	19990614	<--
GB 1999-13822	A	19990614	<--
GB 1999-13824	A	19990614	<--
GB 1999-13826	A	19990614	<--
GB 1999-13827	A	19990614	<--
WO 2000-EP5433	W	20000613	<--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
WO 2000076317	ICM	A01N035-04	
	ICS	A01N035-04; A01N047-24; A01N047-12; A01N043-88; A01N043-653; A01N043-50; A01N043-40; A01N037-24; A01N037-20	
US 2002107246	ECLA	A01N035/04	<--
GI			



- AB The invention relates to a method of combating phytopathogenic diseases on crop plants which comprises applying to the crop plants or the locus thereof being infested with said phytopathogenic disease an effective amount of a combination of a benzophenone I (R1 = methoxy, Me; R2 = C1-C4alkoxy, 2-halogenbenzyloxy; R3 = C1-C4alkoxy; R4 = C1-C4alkyl, halo, or trifluoromethyl; R5 = H, halo, C1-C4alkoxy, trifluoromethyl, or nitro) in association with a compound selected from strobilurins, cyanoimidazoles, and carbonic acid amides.
- ST fungicide synergistic benzophenone strobilurin cyanoimidazole carbonic acid amide
- IT Fungicides
(synergistic; combinations of benzophenones with strobilurins, cyanoimidazoles, and carbonic acid amides)
- IT 117428-22-5D, Picoxystrobin, mixts. with benzophenones 120116-88-3D, IKF 916, mixts. with benzophenones 126833-17-8D, Fenhexamid, mixts. with benzophenones 140923-17-7D, Iprovalicarb, mixts. with benzophenones 156052-68-5D, RH 7281, mixts. with benzophenones 161326-34-7D, Fenamidone, mixts. with benzophenones 175013-18-0D, mixts. with

benzophenones 185336-79-2D, mixts. with benzophenones 185949-88-6D, mixts. with benzophenones 193740-76-0D, mixts. with benzophenones 220898-62-4D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220898-85-1D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-03-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-11-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-25-2D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-12-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-62-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-68-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-85-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-88-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-13-4D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-14-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-15-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-16-7D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-17-8D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-55-4D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-56-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-57-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-58-7D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-59-8D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-60-1D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-61-2D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 313053-52-0D, mixts. with benzophenones

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(in synergistic fungicidal combinations)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Co; EP 0897904 A 1999 HCAPLUS

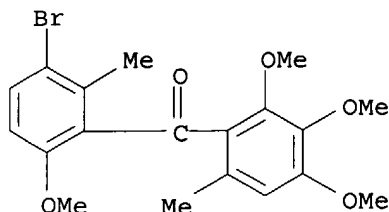
(2) American Cyanamid Co; EP 0899255 A 1999 HCAPLUS

IT 220899-03-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-12-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-62-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-68-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(in synergistic fungicidal combinations)

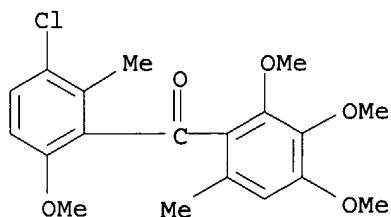
RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



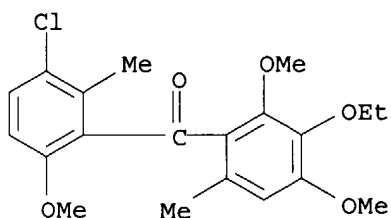
RN 220900-12-9 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



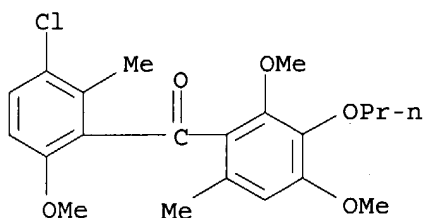
RN 220900-62-9 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (3-ethoxy-2,4-dimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



RN 220900-68-5 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,4-dimethoxy-6-methyl-3-propoxyphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 20 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:861422 HCAPLUS

DN 134:14301

ED Entered STN: 08 Dec 2000

TI Synergistic fungicidal compositions

IN Leadbitter, Neil

PA Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N037-50

ICS A01N037-50; A01N035-04

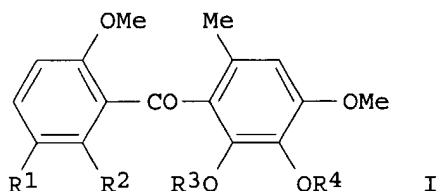
CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000072677	A1	20001207	WO 2000-EP4741	20000524 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1189508	A1	20020327	EP 2000-943734	20000524 <--
EP 1189508	B1	20031008		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
ZA 2001008893	A	20020823	ZA 2001-8893	20011029 <--
US 6472428	B1	20021029	US 2002-979330	20020212 <--
PRAI GB 1999-12219	A	19990526		<--
WO 2000-EP4741	W	20000524		<--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2000072677	ICM	A01N037-50
	ICS	A01N037-50; A01N035-04
US 6472428	ECLA	A01N037/50
OS MARPAT 134:14301		
GI		



AB The invention relates to synergistic fungicidal combinations comprising (E,E)-.alpha.-(methoxyimino)-2-[[[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]benzeneacetic acid Me ester in association with a benzophenone I (R1 = H, halo, C1-5 alkyl or CF3; R2 = halo, C1-5 alkyl or CF3; R3 = C1-5 alkyl or optionally substituted benzyl; R4 = C1-5 alkyl) which are particularly effective in combating or preventing fungal diseases of crop plants.

ST synergism fungicide compn benzophenone deriv

IT Fungicides

(synergistic; compns. containing benzophenone derivative)

IT 309752-56-5 309752-57-6 309752-58-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(synergistic fungicidal composition)

IT 141517-21-7D, mixts. with benzophenone derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(synergistic fungicidal compns.)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Company; EP 0897904 A 1999 HCAPLUS

(2) Ciba-Geigy A-G Switz; EP 0460575 A 1991 HCAPLUS

IT 309752-56-5 309752-57-6 309752-58-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal composition)

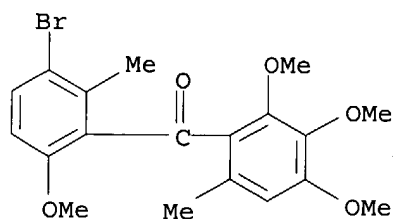
RN 309752-56-5 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

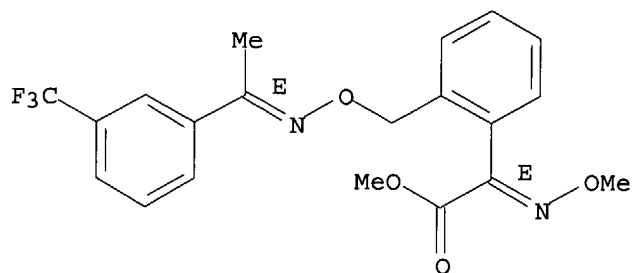


CM 2

CRN 141517-21-7

CMF C20 H19 F3 N2 O4

Double bond geometry as shown.



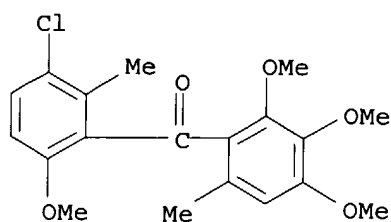
RN 309752-57-6 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220900-12-9

CMF C19 H21 Cl O5

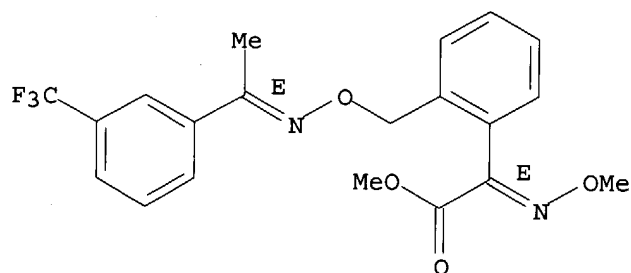


CM 2

CRN 141517-21-7

CMF C20 H19 F3 N2 O4

Double bond geometry as shown.



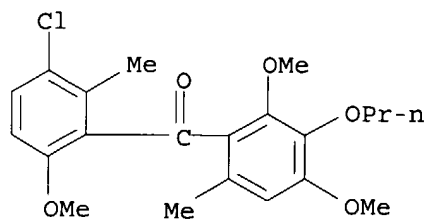
RN 309752-58-7 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-methoxy-2-methylphenyl) (2,4-dimethoxy-6-methyl-3-propoxyphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220900-68-5

CMF C21 H25 Cl O5

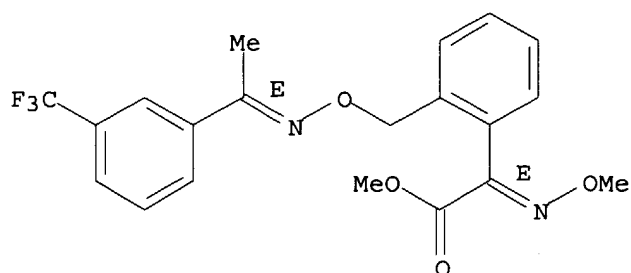


CM 2

CRN 141517-21-7

CMF C20 H19 F3 N2 O4

Double bond geometry as shown.



L31 ANSWER 21 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:699226 HCAPLUS
 DN 133:266598
 ED Entered STN: 04 Oct 2000
 TI Fungicidal substituted 2-hydroxybenzophenones
 IN Curtze, Juergen; Morschhaeuser, Gerd; Van Tuyl Cotter, Henry
 PA American Cyanamid Company, USA
 SO U.S., 11 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C07L069-00
 NCL 560140000
 CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

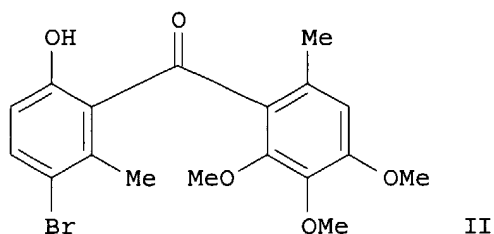
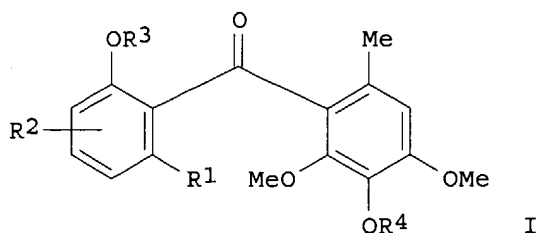
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6127570	A	20001003	US 1999-329712	19990610 <--
PRAI US 1999-329712		19990610	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 6127570	ICM	C07L069-00
	NCL	560140000

OS MARPAT 133:266598
 GI



AB 2-Hydroxybenzophenones [I; R1 = halo, alkyl, fluoroalkyl; R2 = H, halo, alkyl, alkoxy, etc.; R3 = H, protecting group; R4 = (un)substituted alkyl] were prepared as agricultural fungicides. Thus, 0.7 g 2-acetoxy-5-bromo-6,6'-dimethyl-2',3',4'-trimethoxybenzophenone (prepared in 4 steps from Et 2-hydroxy-6-methylbenzoate) and 0.7 g potassium carbonate were stirred in MeOH (10 mL) and water (5 mL) at room temperature for 20 h to give II in 75.9% yield. At 125 ppm, II controlled wheat powdery mildew on wheat with 59% efficacy.

ST hydroxybenzophenone deriv prepn fungicidal activity

IT Fungicides

(2-hydroxybenzophenones)

IT 252955-09-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(fungicidal substituted 2-hydroxybenzophenones)

IT **252955-10-5P** 252955-11-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal substituted 2-hydroxybenzophenones)

IT 567-61-3 1538-75-6, Pivaloyl anhydride 3282-30-2, Pivaloyl chloride 6443-69-2, 3,4,5-Trimethoxytoluene 6555-40-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(fungicidal substituted 2-hydroxybenzophenones)

IT 252955-14-9P 252955-18-3P 252955-19-4P 252955-20-7P 252955-21-8P
252955-22-9P 296236-21-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fungicidal substituted 2-hydroxybenzophenones)

IT **252955-12-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(fungicidal substituted 2-hydroxybenzophenones)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Anon; WO 9302036 1993 HCAPLUS

(2) Curtze; US 5679866 1997 HCAPLUS

(3) Duennenberger; US 3924002 1975 HCAPLUS

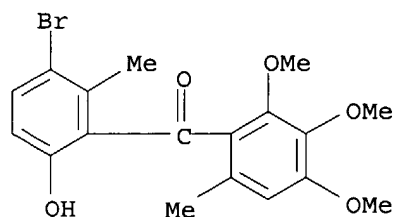
(4) Islam; J Chem Res Miniprint 1991, V2, P367

IT 252955-10-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(fungicidal substituted 2-hydroxybenzophenones)

RN 252955-10-5 HCAPLUS

CN Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

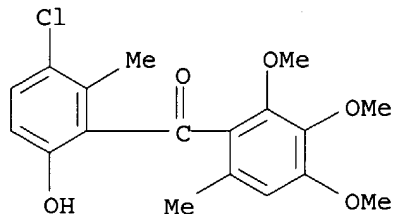


IT 252955-12-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(fungicidal substituted 2-hydroxybenzophenones)

RN 252955-12-7 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 22 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:553194 HCAPLUS

DN 133:146282

ED Entered STN: 11 Aug 2000

TI Stable non-aqueous fungicidal or herbicidal emulsifiable concentrate for crop protection containing defoaming agents

IN Aven, Michael; Schmidt, Friedrich

PA American Cyanamid Co., USA

SO Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A01N025-02

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1025757	A1	20000809	EP 2000-300673	20000128 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRAI US 1999-240418

A

19990129 <--

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

EP 1025757 ICM A01N025-02

AB Stable non-aqueous emulsifiable concentrate formulation for crop protection comprises at least one fungicide or herbicide, at least one non-polar organic solvent, optionally, at least one polar aprotic cosolvent, an emulsifying surfactant system enabling an oil-in-water emulsion to be formed when the formulation is added to water, and at least one defoaming or foam breaking agent selected from the group consisting of perfluoroalkylphosphonic acids, perfluoroalkylphosphinic acids and perfluoroaliph. polymeric esters.

ST fungicide herbicide emulsion conc defoaming

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)

(C9-11, ethoxylated; non-ionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

IT Emulsions

Emulsions

(agrochem.; stable fungicidal or herbicidal emulsifiable concentrate containing

defoaming agents)

IT Carboxylic acids, uses

RL: MOA (Modifier or additive use); USES (Uses)

(dicarboxylic, C4-6, di-Me esters; co-solvent in stable fungicidal or herbicidal emulsifiable concentrate)

IT Agrochemical formulations

Agrochemical formulations

(emulsions; stable fungicidal or herbicidal emulsifiable concentrate containing

defoaming agents)

IT Canola oil

RL: MOA (Modifier or additive use); USES (Uses)

(ethoxylated, Eumulgin CO 3373; non-ionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

IT Castor oil

RL: MOA (Modifier or additive use); USES (Uses)

(ethoxylated, Mergital EL 33, Ukanil 2507; co-solvent in stable fungicidal or herbicidal emulsifiable concentrate)

IT Solvent naphtha

(solvent in stable fungicidal or herbicidal emulsifiable concentrate)

IT Aromatic hydrocarbons, uses

Paraffin oils

RL: MOA (Modifier or additive use); USES (Uses)

(solvent in stable fungicidal or herbicidal emulsifiable concentrate)

IT Fungicides

(stable fungicidal emulsifiable concentrate containing defoaming agents)

IT Pesticide formulations

(stable fungicidal or herbicidal emulsifiable concentrate containing defoaming

agents)

IT Antifoaming agents

Herbicides

(stable herbicidal emulsifiable concentrate containing defoaming agents)

IT 617-51-6, Lactic acid isopropyl ester

RL: MOA (Modifier or additive use); USES (Uses)

(Purasolv IPL; solvent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 9016-00-6, Rhodorsil 454

RL: MOA (Modifier or additive use); USES (Uses)
 (Rhodorsil 454; antifoaming agent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 1331-61-9, Rhodacal 2283 26264-06-2, Rhodacal 70b
 RL: MOA (Modifier or additive use); USES (Uses)
 (anionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

IT 2991-51-7, Fluorad FC-129 11114-17-3, Fluorad FC-430 67906-42-7, Fluorad FC-120 68958-61-2, Fluorad FC-171 135506-92-2, Fluowet pp 141615-38-5, Fluowet pl80 287716-37-4, Rhodorsil 467
 RL: MOA (Modifier or additive use); USES (Uses)
 (antifoaming agent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 96-48-0, .gamma.-Butyrolactone 110-71-4, Ethylene glycol, dimethyl ether 6837-24-7, N-Cyclohexylpyrrolidone
 RL: MOA (Modifier or additive use); USES (Uses)
 (co-solvent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 110488-70-5, Dimethomorph 125116-23-6, Metconazole 220899-03-6
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (fungicide in stable emulsifiable concentrate)

IT 29450-45-1 40487-42-1, Pendimethalin 137641-05-5, Picolinafen
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (herbicide in stable emulsifiable concentrate)

IT 2687-94-7 2687-96-9, Agsol Ex12 32440-50-9, Agrimer al25 140175-09-3, Atplus mba 11-7 286940-99-6
 RL: MOA (Modifier or additive use); USES (Uses)
 (non-ionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

IT 26264-05-1, Atlox 3300b 128002-46-0, Atlox 4855b
 RL: MOA (Modifier or additive use); USES (Uses)
 (surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

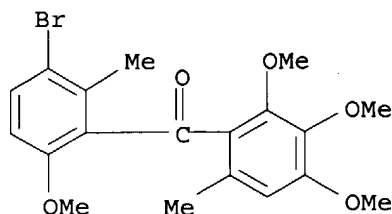
RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
- (2) American Cyanamid Co; EP 0878128 A 1998 HCAPLUS
- (3) Ciba Geigy Ag; WO 9800008 A 1998 HCAPLUS
- (4) Hoechst Ag; EP 0407874 A 1991 HCAPLUS
- (5) Shell Int Research; EP 0447004 A 1991 HCAPLUS

IT 220899-03-6
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (fungicide in stable emulsifiable concentrate)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 23 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:534806 HCAPLUS
 DN 133:131170

ED Entered STN: 04 Aug 2000
 TI Nonaqueous emulsifiable concentrate fungicide formulation
 IN Aven, Michael
 PA American Cyanamid Co., USA
 SO Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM A01N043-50
 ICS A01N043-653
 ICI A01N043-50, A01N043-90, A01N035-04, A01N025-30, A01N025-02; A01N043-653,
 A01N043-90, A01N035-04, A01N025-30, A01N025-02
 CC 5-2 (Agrochemical Bioregulators)

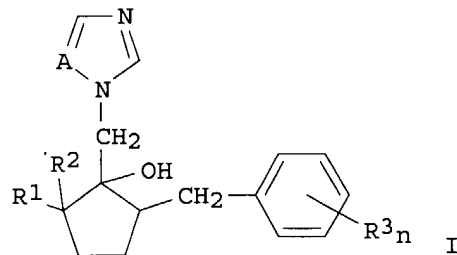
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1023837	A2	20000802	EP 2000-300666	20000128 <--
	EP 1023837	A3	20010530		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1999-240634	A	19990129	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1023837	ICM	A01N043-50
	ICS	A01N043-653
	ICI	A01N043-50, A01N043-90, A01N035-04, A01N025-30, A01N025-02; A01N043-653, A01N043-90, A01N035-04, A01N025-30, A01N025-02

OS MARPAT 133:131170
 GI



AB The title formulation comprises 50-300 g/L azole derivative I [R1, R2 = H or (un)substituted alkyl, alkenyl, alkynyl or alkadienyl; R3 = halo or (un)substituted alkyl, alkenyl, alkynyl, alkadienyl, alkoxy or aryl; A = N or CH; n = 0, 1 or 2] and, optionally, 50-500 g/L addnl. fungicide, as active ingredient. The inactive formulation ingredients are .gtoreq.700 g/L alkoxylates of an aliphatic alc., .ltoreq.100 g/L nonionic dispersant(s), 10-100 g/L anionic dispersant(s), 50-600 g/L polar aprotic organic solvent(s), 150-500 g/L nonpolar organic solvent(s), and .ltoreq.5 g/L defoamer.

ST emulsifiable conc fungicide formulation

IT Alcohols, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (C9-11, ethoxylated; nonaq. emulsifiable concentrate fungicidal formulation containing)

IT Castor oil

RL: MOA (Modifier or additive use); USES (Uses)
 (ethoxylated, Ukanil 2507; nonaq. emulsifiable concentrate fungicidal formulation containing)

IT Fungicides
 Pesticide formulations
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 26264-06-2, Calcium dodecylbenzenesulfonate
 RL: MOA (Modifier or additive use); USES (Uses)
 (Rhodacal 70B; nonaq. emulsifiable concentrate fungicidal formulation containing)

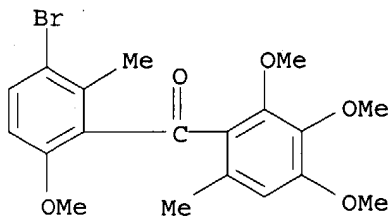
IT 125116-23-6, Metconazole 214633-94-0 **220899-03-6**
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 96-48-0, .gamma.-Butyrolactone 2687-94-7, N-Octylpyrrolidone 6837-24-7, N-Cyclohexylpyrrolidone 9016-45-9, Synperonic NP-4 26264-05-1, Atlox 3300B 140175-09-3, Atplus MBA 11-7 141615-38-5, Fluowet PL80
 RL: MOA (Modifier or additive use); USES (Uses)
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

IT **220899-03-6**
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 24 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:534802 HCAPLUS
 DN 133:131191
 ED Entered STN: 04 Aug 2000
 TI Emulsifiable concentrate containing one or more pesticides and adjuvants
 IN Aven, Michael
 PA American Cyanamid Co., USA
 SO Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM A01N025-30
 ICS A01N025-02
 CC 5-4 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1023833	A2	20000802	EP 2000-300667	20000128 <--
	EP 1023833	A3	20010718		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO
 US 6566308 B1 20030520 US 1999-466747 19991217 <--
 PRAI US 1999-117707P P 19990129 <--
 US 1999-240645 A 19990129 <--

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

EP 1023833 ICM A01N025-30
 ICS A01N025-02

OS MARPAT 133:131191

AB The invention relates to a stable emulsifiable concentrate which comprises: (a) pesticide(s); (b) 150-500 g/L adjuvant(s); (c) optionally one or more organic nonpolar solvents; (d) an emulsifying surfactant system forming an oil-in-water emulsion when the formulation is added to water, which consists of nonionic surfactant(s) and anionic surfactant(s); (e) a water-miscible polar aprotic solvent or di-Me dicarboxylate(s); and (f) optionally an antifoam agent.

ST pesticide emulsion conc

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)

(C9-11, ethoxylated, Synperonic 91/6; emulsifiable pesticide concentrate containing)

IT Carboxylic acids, uses

RL: MOA (Modifier or additive use); USES (Uses)

(dicarboxylic, C4-6, di-Me esters; emulsifiable pesticide concentrate containing)

IT Pesticide formulations

(emulsifiable concentrate)

IT Canola oil

RL: MOA (Modifier or additive use); USES (Uses)

(ethoxylated, Emulgin CO 3373; emulsifiable pesticide concentrate

containing)

IT Castor oil

RL: MOA (Modifier or additive use); USES (Uses)

(ethoxylated; emulsifiable pesticide concentrate containing)

IT 9016-00-6, Rhodorsil 454

RL: MOA (Modifier or additive use); USES (Uses)

(Rhodorsil 454; emulsifiable pesticide concentrate containing)

IT 40487-42-1, Pendimethalin 110488-70-5, Dimethomorph 125116-23-6, Metconazole 220899-03-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (emulsifiable concentrate formulation of)

IT 1331-61-9 2687-94-7 2687-96-9, Agsol Ex12 6837-24-7 11114-17-3, Fluorad FC-430 26264-05-1, Atlox 3300B 26264-06-2, Rhodacal 70B 32440-50-9, Agrimer AL25 135506-92-2, Fluowet PP 140175-09-3, Atplus MBA 11-7 141615-38-5, Fluowet PL80 286940-42-9, Atplus 4855B 286940-71-4, Rhodorsil 416 286940-99-6, Phenylsulfonat CA 100

RL: MOA (Modifier or additive use); USES (Uses)

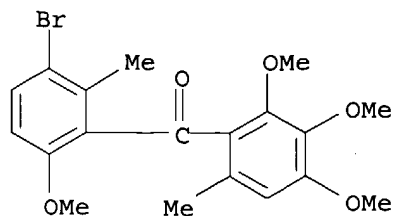
(emulsifiable pesticide concentrate containing)

IT 220899-03-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (emulsifiable concentrate formulation of)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



L31 ANSWER 25 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:819042 HCAPLUS
 DN 132:49794
 ED Entered STN: 30 Dec 1999
 TI Preparation of substituted 2-hydroxybenzophenones as agrochemical fungicides
 IN Curtze, Juergen; Morschhaeuser, Gerd; Cotter, Henry Van Tuyl
 PA American Cyanamid Company, USA; BASF AG
 SO Eur. Pat. Appl., 20 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C07C049-83
 ICS C07C205-45; C07C069-145; A01N035-04; A01N037-02; A01N033-10
 CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

FAN.CNT 1

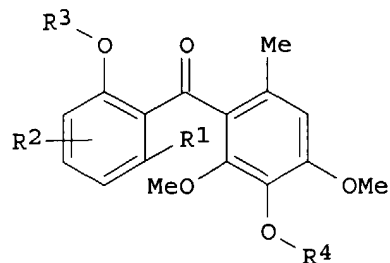
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 967196	A2	19991229	EP 1999-304860	19990622 <--
	EP 967196	A3	20011219		
	EP 967196	B1	20031022		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AT 252537	E	20031115	AT 1999-304860	19990622 <--
PRAI	US 1998-103435	A	19980624	<--	

CLASS

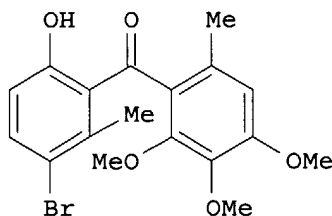
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 967196	ICM	C07C049-83
	ICS	C07C205-45; C07C069-145; A01N035-04; A01N037-02; A01N033-10

OS MARPAT 132:49794

GI

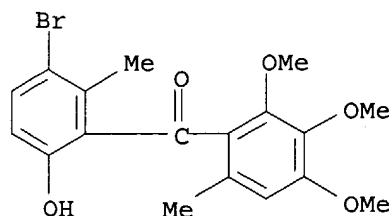


I



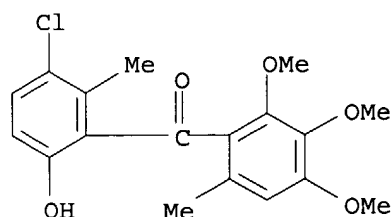
II

- AB The title compds. [I; R1 = halo, alkyl, fluoroalkyl; R2 = H, halo, alkyl, etc.; R1R2 = CH:CHCH:CH; R3 = H, protecting group; R4 = alkyl], useful as fungicides having high systemicities, were prepared. Thus, treatment of 2-acetoxy-5-bromo-6,6'-dimethyl-2',3',4'-trimethoxybenzophenone (preparation given) with K₂CO₃ in MeOH/H₂O afforded 76% II which showed 100% control of wheat powdery mildew at 5 ppm (4/5 day residual inoculation).
- ST fungicide agrochem hydroxybenzophenone prepn; ascomycete fungicide agrochem hydroxybenzophenone prepn; Erysiphaceae fungicide agrochem hydroxybenzophenone prepn; Blumeria graminis fungicide agrochem hydroxybenzophenone prepn; Erysiphe cichoracearum fungicide agrochem hydroxybenzophenone prepn; Podosphaera leucotricha fungicide agrochem hydroxybenzophenone prepn; Uncinula necator fungicide agrochem hydroxybenzophenone prepn
- IT Fungicides
(agrochem.; preparation of substituted 2-hydroxybenzophenones as fungicides)
- IT Ascomycete (Ascomycota)
Blumeria graminis
Erysiphaceae
Erysiphe cichoracearum
Podosphaera leucotricha
Uncinula necator
(preparation of substituted 2-hydroxybenzophenones as fungicides)
- IT 252955-09-2P 252955-14-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted 2-hydroxybenzophenones as fungicides)
- IT **252955-10-5P** 252955-11-6P **252955-12-7P** 252955-13-8P
252955-15-0P 252955-16-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted 2-hydroxybenzophenones as fungicides)
- IT 567-61-3, 2-Hydroxy-6-methylbenzoic acid 1538-75-6, Pivaloyl anhydride
3282-30-2, Pivaloyl chloride 6443-69-2, 3,4,5-Trimethoxytoluene
6555-40-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of substituted 2-hydroxybenzophenones as fungicides)
- IT 252955-17-2P 252955-18-3P 252955-19-4P 252955-20-7P 252955-21-8P
252955-22-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted 2-hydroxybenzophenones as fungicides)
- IT **252955-10-5P** **252955-12-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted 2-hydroxybenzophenones as fungicides)
- RN 252955-10-5 HCAPLUS
- CN Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



RN 252955-12-7 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 26 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:439359 HCAPLUS

DN 131:87719

ED Entered STN: 19 Jul 1999

TI Preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides

IN Curtze, Juergen; Simon, Werner; Morschhaeuser, Gerd; Waldeck, Andreas; Stumm, Karl-Otto; Van Tuyl Cotter, Henry; Albert, Guido; Rehnig, Annerose; Reichert, Gunther

PA American Cyanamid Company, USA

SO U.S., 12 pp., Cont.-in-part of U.S. Ser. No. 914,966.

CODEN: USXXAM

DT Patent

LA English

IC ICM C07C065-00

NCL 562474000

CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

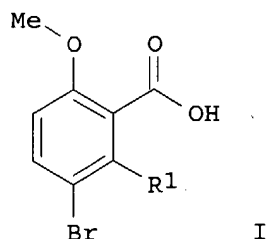
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5922905	A	19990713	US 1997-953048	19971017 <--
	US 5945567	A	19990831	US 1997-914966	19970820 <--
	HR 980439	B1	20030831	HR 1998-980439	19980811 <--
	SK 283231	B6	20030401	SK 1998-1131	19980817 <--
	CA 2245124	AA	19990220	CA 1998-2245124	19980818 <--
	EP 897904	A1	19990224	EP 1998-306583	19980818 <--
	EP 897904	B1	20020220		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11171818	A2	19990629	JP 1998-246511	19980818 <--
	AT 213491	E	20020315	AT 1998-306583	19980818 <--
	PT 897904	T	20020830	PT 1998-306583	19980818 <--

ES 2172864	T3	20021001	ES 1998-306583	19980818 <--
AU 9880839	A1	19990304	AU 1998-80839	19980819 <--
AU 751033	B2	20020808		
NZ 331457	A	20000128	NZ 1998-331457	19980819 <--
ZA 9807489	A	20000221	ZA 1998-7489	19980819 <--
EE 3962	B1	20030217	EE 1998-301	19980819 <--
CN 1217317	A	19990526	CN 1998-118632	19980820 <--
TW 382013	B	20000211	TW 1998-87113743	19980820 <--
BR 9803198	A	20000328	BR 1998-3198	19980820 <--
SG 77195	A1	20001219	SG 1998-3152	19980820 <--
BG 64048	B1	20031128	BG 1998-102704	19980820 <--
PRAI US 1997-914966	A2	19970820	<--	
US 1997-953048	A	19971017	<--	
US 1998-103887	A	19980624	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
US 5922905	ICM	C07C065-00	
	NCL	562474000	
US 5922905	ECLA	A01N035/04; C07C065/24; C07C205/45; C07C045/46; C07C045/67C; C07C045/67C1; C07C004/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21	<--
US 5945567	ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45	<--
EP 897904	ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45	<--
OS MARPAT 131:87719			
GI			



- AB The title compds. [I; R1 = alkyl], intermediates for agricultural herbicides of benzophenone type, were prepared by bromination of 2-methoxy-6-alkyl benzoic acids in polar solvents, e.g., aliphatic alcs. or aliphatic carboxylic acids, in the presence of a weak base or a buffer system, e.g., NaOAc or Na2CO3. 5-Bromo-2-methoxy-6-methylbenzoic acid is also claimed. For example, Et 6-chloro-2-methoxybenzoate was brominated in AcOH, the 5-bromo derivative (69%) saponified and acidified, the acid (85%) chlorinated with (COCl)2 in CH2Cl2 and the acid chloride without purification condensed with 3,4,5-(MeO)3C6H2Me in CH2Cl2 in the presence of AlCl3 to give 35.4% 5-bromo-6-chloro-6'-methyl-2,2',3',4'-tetramethoxybenzophenone (m. 87-88.degree.) which had ED50 = 5 ppm and 7 ppm against wheat powdery mildew and barley powdery mildew, resp., vs. 12 and 26 ppm for quinoxifen as a reference
- ST benzoic acid bromo methoxy prepn agricultural fungicide intermediate; chloromethoxybenzoate ester bromination agricultural fungicide intermediate prepn; bromochloromethoxybenzoate prepn sapon acid

chlorination agricultural fungicide intermediate prepn; methoxytoluene condensation bromochloromethoxybenzoyl chloride agricultural fungicide intermediate prepn; bromochloromethyltetramethoxybenzophenone prepn agricultural fungicide; benzophenone methyl bromo chloro tetramethoxy prepn agricultural fungicide

IT Fungicides

(agrochem.; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for)

IT 6443-69-2, 3,4,5-Trimethoxytoluene

RL: RCT (Reactant); RACT (Reactant or reagent)

(benzoylation with methoxy(methyl)benzoyl chloride; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 172217-12-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(bromination; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 2283-08-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(etherification with di-Me sulfate; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 183725-30-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(etherification with sodium methoxide; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 6161-65-5P, 2-Methoxy-6-methylbenzoic acid 220901-05-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and acid chlorination; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 50463-84-8P, 2-Methoxy-6-methylbenzoyl chloride 220901-12-2P

220901-25-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and benzoylation of trimethoxytoluene; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 13343-92-5P 133379-06-3P 220904-39-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and saponification; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids

as intermediates for agricultural fungicides)

IT 220898-62-4P 220898-69-1P 220898-75-9P 220898-85-1P 220898-94-2P

220899-03-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 6520-83-8, Ethyl 2-methoxy-6-methylbenzoate

RL: RCT (Reactant); RACT (Reactant or reagent)

(saponification; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 71-36-3, 1-Butanol, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(transesterification of tetramethoxybenzophenone derivative; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

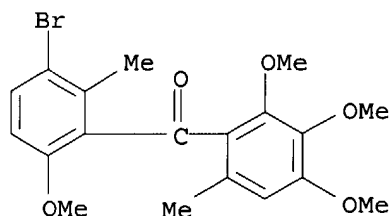
- (1) Auerbach; US 5248817 1993 HCAPLUS
- (2) Auerbach; Tetrahedron Letters 1993, V34(06), P931 HCAPLUS
- (3) Keller-Schierlein; Helv Chim Acta 1969, V52(1), P127 HCAPLUS
- (4) Kumar; J Indian Chem Soc 1974, V51(11), P944 HCAPLUS
- (5) March, J; Advanced Organic Chemistry, third edition 1985, P334
- (6) Muntwyler; Helv Chim Acta 1970, V53(6), P1544 HCAPLUS
- (7) Nishiyama; Journal of Organic Chemistry 1992, V57, P407 HCAPLUS

IT 220899-03-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

RN 220899-03-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



L31 ANSWER 27 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:139752 HCAPLUS

DN 130:209501

ED Entered STN: 04 Mar 1999

TI Preparation of fungicidal 2-methoxybenzophenones

IN Curtze, Juergen; Morschhaeuser, Gerd; Stumm, Karl-Otto; Albert, Guido; Reichert, Gunther; Simon, Werner; Waldeck, Andreas; Van Tuyl Cotter, Henry; Rehnig, Annerose Edith Elise

PA American Cyanamid Company, USA

SO Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07C049-84

ICS C07C205-45; C07C065-21; A01N035-04; C07C045-46; C07C045-70;
 C07C045-68; C07C051-363; C07C067-307; C07C051-60; C07C051-347;
 C07C067-343; C07C069-92

CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

FAN.CNT 2

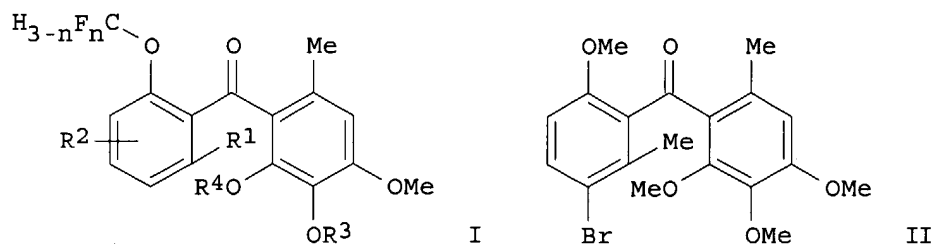
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 897904	A1	19990224	EP 1998-306583	19980818 <--
	EP 897904	B1	20020220		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 5945567	A	19990831	US 1997-914966	19970820 <--
	US 5922905	A	19990713	US 1997-953048	19971017 <--
	US 6001883	A	19991214	US 1998-103887	19980624 <--
PRAI	US 1997-914966	A	19970820	<--	

US 1997-953048 A 19971017 <--

US 1998-103887 A 19980624 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
EP 897904	ICM	C07C049-84	
	ICS	C07C205-45; C07C065-21; A01N035-04; C07C045-46; C07C045-70; C07C045-68; C07C051-363; C07C067-307; C07C051-60; C07C051-347; C07C067-343; C07C069-92	
EP 897904	ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45	<--
US 5945567	ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45	<--
US 5922905	ECLA	A01N035/04; C07C065/24; C07C205/45; C07C045/46; C07C045/67C; C07C045/67C1; C07C004/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21	<--
US 6001883	ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45	<--
OS	MARPAT 130:209501		
GI			



- AB The title compds. [I; R1 = halo, alkyl, haloalkyl; R2 = H, halo, alkyl, etc.; R1R2 = CH:CHCH:CH; R3, R4 = alkyl; n = 0-3], useful as agrochem. fungicides, were prepared. Thus, bromination of Et 6-methyl-2-methoxybenzoate followed by hydrolysis of the resulting Et 5-bromo-6-methyl-2-methoxybenzoate, and reaction of 5-bromo-6-methyl-2-methoxybenzoic acid with 3,4,5-trimethoxytoluene afforded benzophenone II which showed 64% control against wheat powdery mildew at 125 ppm (curative fungicidal activity) and 100% control against wheat powdery mildew at 5 ppm (residual fungicidal activity).
- ST fungicide agrochem methoxybenzophenone prepn; benzophenone methoxy prepn
fungicide agrochem; ascomycete Erysiphaceae fungicide agrochem
benzophenone methoxy prepn
- IT Fungicides
(agrochem.; preparation of fungicidal 2-methoxybenzophenones)
- IT Ascomycete (Ascomycota)
Erysiphaceae
(preparation of fungicidal 2-methoxybenzophenones)
- IT 220898-62-4P **220899-03-6P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of fungicidal 2-methoxybenzophenones)

IT 220898-69-1P 220898-75-9P 220898-85-1P 220898-94-2P 220899-11-6P
 220899-25-2P 220899-33-2P 220899-42-3P 220899-48-9P 220899-65-0P
 220899-72-9P 220899-90-1P 220899-98-9P **220900-04-9P**
220900-12-9P 220900-19-6P 220900-25-4P
 220900-30-1P 220900-38-9P **220900-46-9P 220900-62-9P**
220900-68-5P 220900-75-4P 220900-85-6P 220900-88-9P
220900-94-7P 220902-04-5P 220902-38-5P 220902-44-3P
220902-53-4P 220902-60-3P 220902-62-5P 220902-63-6P
 220902-64-7P 220902-65-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of fungicidal 2-methoxybenzophenones)

IT 452-70-0, 4-Fluoro-3-methylphenol 507-20-0, tert-Butyl chloride
 2283-08-1 6443-69-2, 3,4,5-Trimethoxytoluene 6520-83-8, Ethyl
 2-methoxy-6-methylbenzoate 23550-92-7 32890-94-1, 2-Fluoro-6-
 trifluoromethylbenzoic acid 172217-12-8 183725-30-6 220901-99-5
 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of fungicidal 2-methoxybenzophenones)

IT 947-62-6P 6161-65-5P, 2-Methoxy-6-methylbenzoic acid 13343-92-5P
 50463-84-8P, 2-Methoxy-6-methylbenzoyl chloride 119692-41-0P
 133379-06-3P 220901-05-3P 220901-12-2P 220901-25-7P 220901-37-1P
 220901-41-7P 220901-47-3P 220901-54-2P 220901-60-0P 220901-65-5P
 220901-72-4P 220904-39-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of fungicidal 2-methoxybenzophenones)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCAPLUS
- (2) Islam, M; J CHEM RES SYNOP V91(2), P29

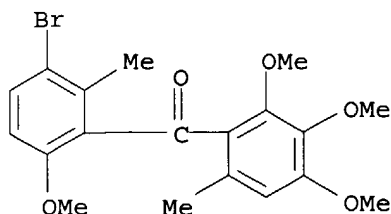
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of fungicidal 2-methoxybenzophenones)

RN 220899-03-6 HCAPLUS

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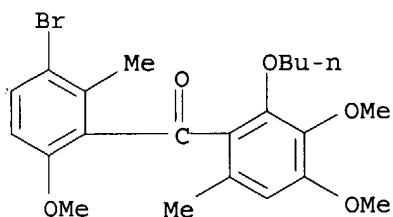


IT **220900-04-9P 220900-12-9P 220900-19-6P**
220900-25-4P 220900-46-9P 220900-62-9P
220900-68-5P 220900-94-7P 220902-53-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of fungicidal 2-methoxybenzophenones)

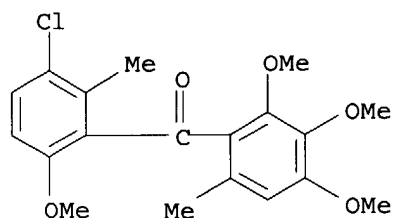
RN 220900-04-9 HCAPLUS

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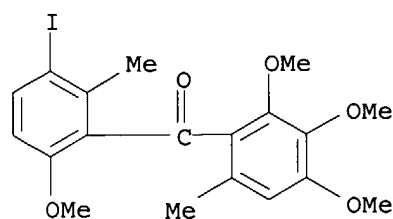
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CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



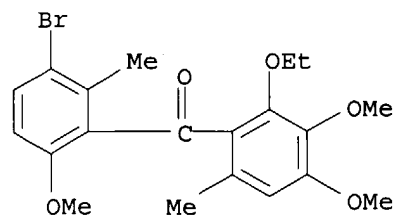
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CN Methanone, (3-iodo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



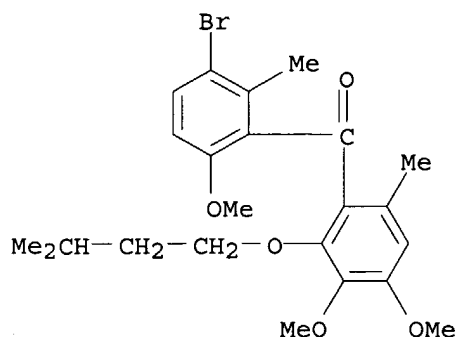
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CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2-ethoxy-3,4-dimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



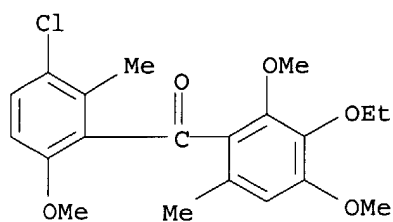
RN 220900-46-9 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) [3,4-dimethoxy-6-methyl-2-(3-methylbutoxy)phenyl]- (9CI) (CA INDEX NAME)



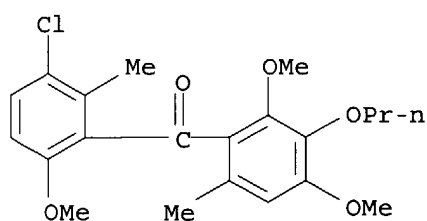
RN 220900-62-9 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (3-ethoxy-2,4-dimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



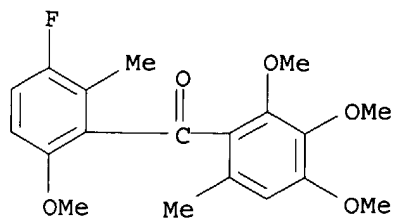
RN 220900-68-5 HCAPLUS

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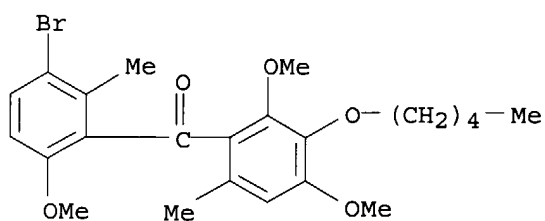
RN 220900-94-7 HCAPLUS

CN Methanone, (3-fluoro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



RN 220902-53-4 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) [2,4-dimethoxy-6-methyl-3-(pentyloxy)phenyl]- (9CI) (CA INDEX NAME)



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